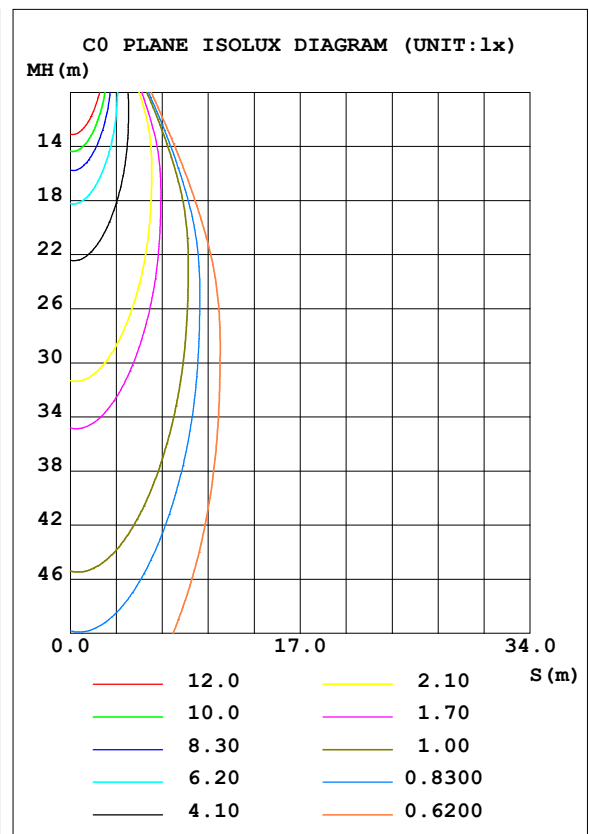
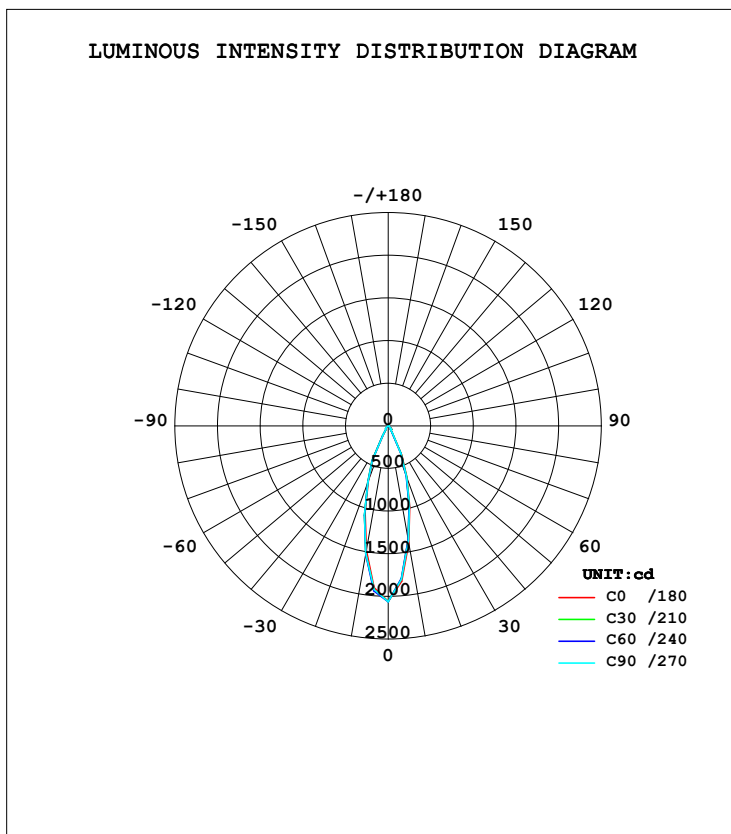


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: Famco FHL605	TYPE:	WEIGHT:
DIMENSION:	SPECIFICATION:	SERIAL No.:
MANUFACTURER: Famco	SURFACE:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA			
Model:	FHL605	Imax (cd)	2063	S/MH (C0/180)	0.50
NOMINAL POWER (W)	16	EFFICIENCY (%)	100.0	S/MH (C90/270)	0.51
RATED VOLTAGE (V)	240	TOTAL FLUX (lm)	744.08	η UP (C0-180)	0.4
NOMINAL FLUX (lm)	744.08	CIE CLASS	DIRECT	η DN (C0-180)	51.4
LAMPS INSIDE	1	η up (%)	0.8	η UP (C180-360)	0.4
TEST VOLTAGE (V)	240.0	η down (%)	99.2	η DN (C180-360)	47.8



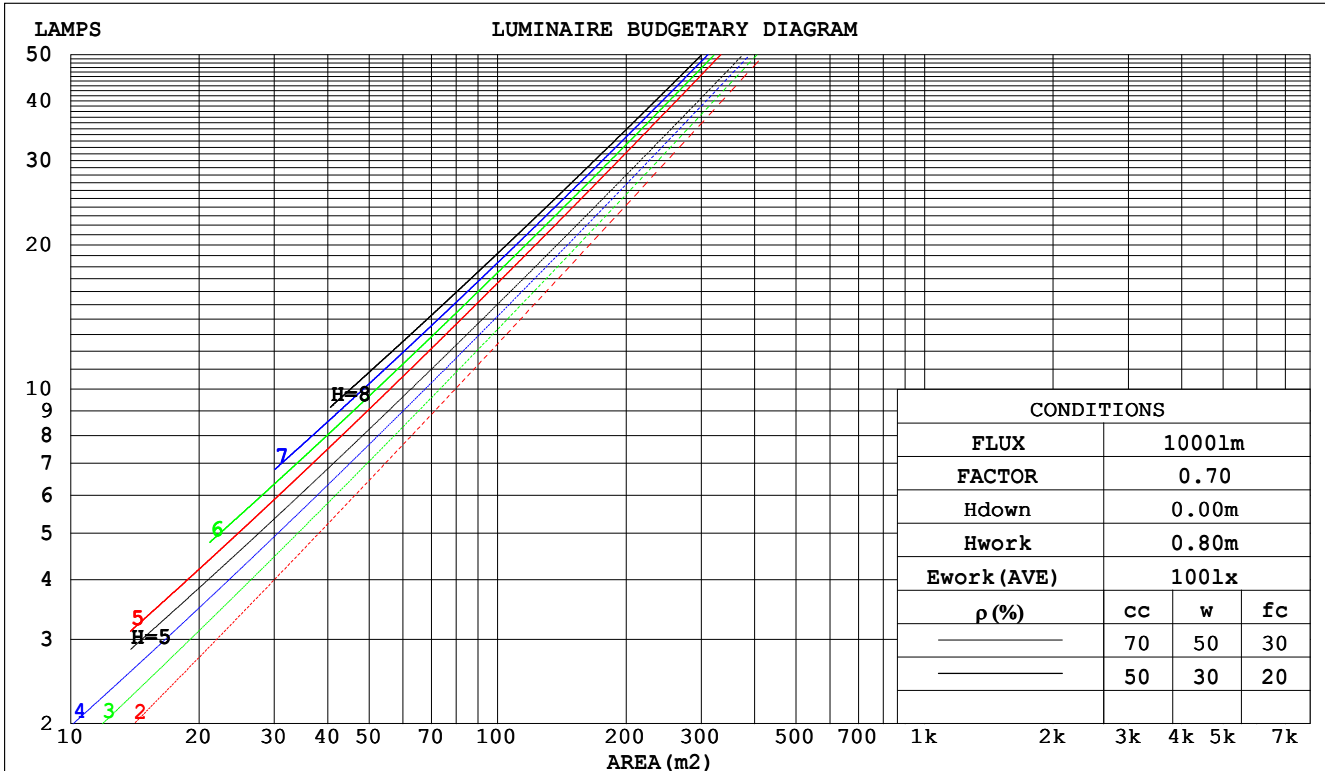
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 24DEG
Operators: Chris
Test Date: 2014-04-10

γ Range: 0 - 180DEG
 γ Interval: 5.0DEG
Test System: EVERFINE GO-2000A SYSTEM V1.0.210
Humidity: 53%
Test Distance: 8.000m [K=1.0000]
Remarks: Famco FHL605

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: 140075_LD605 Famco Sample	TYPE:	WEIGHT:
DIMENSION:	SPECIFICATION:	SERIAL No.:
MANUFACTURER: Legrand Australia	SURFACE:	PROTECTION ANGLE:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.01	1.01	1.01	.99
1.0	1.12	1.09	1.07	1.09	1.07	1.06	1.05	1.04	1.02	1.01	1.00	.99	.98	.97	.96	.94
2.0	1.05	1.02	.99	1.04	1.00	.98	1.00	.98	.95	.97	.95	.93	.94	.93	.91	.90
3.0	.90	.95	.92	.98	.94	.91	.96	.92	.90	.93	.90	.88	.91	.89	.87	.85
4.0	.95	.90	.86	.94	.89	.86	.91	.88	.85	.89	.86	.84	.87	.85	.83	.81
5.0	.90	.85	.82	.89	.85	.81	.87	.84	.81	.86	.82	.80	.84	.81	.79	.78
6.0	.86	.81	.78	.85	.81	.77	.84	.80	.77	.82	.79	.76	.81	.78	.76	.74
7.0	.82	.77	.74	.82	.77	.74	.81	.76	.73	.79	.76	.73	.78	.75	.73	.71
8.0	.79	.74	.71	.79	.74	.71	.77	.73	.70	.76	.73	.70	.76	.72	.70	.69
9.0	.76	.71	.68	.76	.71	.68	.75	.70	.68	.74	.70	.67	.73	.70	.67	.66
10.0	.73	.68	.65	.73	.68	.65	.72	.68	.65	.71	.67	.65	.71	.67	.65	.64



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 24DEG
 Operators: Chris
 Test Date: 2014-04-10

γ Range: 0 - 180DEG
 γ Interval: 5.0DEG
 Test System: EVERFINE GO-2000A SYSTEM V1.0.210
 Humidity: 53%
 Test Distance: 8.000m [K=1.0000]
 Remarks: Famco FHL605

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%
10	1482	1525	1518	1457	1395	1359	1368	1414	0- 10	178.0	178.0	23.92
20	690.4	711.0	697.7	682.7	638.1	627.9	635.8	671.6	10- 20	288.6	466.6	62.70
30	127.3	135.6	121.9	110.0	90.47	93.11	99.74	102.7	20- 30	186.8	653.4	87.81
40	48.12	44.83	47.94	53.77	55.30	58.73	60.82	55.60	30- 40	30.97	684.4	91.97
50	28.28	28.64	36.32	40.26	39.94	33.82	29.75	28.47	40- 50	41.83	726.2	97.59
60	2.471	2.363	2.322	2.329	2.255	2.493	2.497	2.487	50- 60	7.387	733.6	98.59
70	1.673	1.693	1.710	1.694	1.661	1.710	1.694	1.713	60- 70	1.903	735.5	98.84
80	1.358	1.248	1.294	1.278	1.264	1.441	1.421	1.446	70- 80	1.639	737.1	99.06
90	0	0	0.3115	0.5389	0.6393	0.1626	0	0	80- 90	1.008	738.1	99.20
100	0.5710	0.5129	0.5895	0.4912	0.5969	0.5892	0.5857	0.5735	90-100	0.2432	738.4	99.23
110	0.6658	0.6895	0.6366	0.6669	0.6427	0.6726	0.6659	0.7265	100-110	0.6762	739.0	99.32
120	1.531	1.484	1.696	1.310	1.522	1.603	1.760	1.576	110-120	0.9199	740.0	99.45
130	1.464	1.314	1.317	1.287	1.507	1.413	1.405	1.605	120-130	1.275	741.2	99.62
140	1.361	1.257	1.183	1.240	1.341	1.311	1.250	1.311	130-140	1.046	742.3	99.76
150	1.163	1.204	1.164	1.237	1.264	1.268	1.198	1.174	140-150	0.7783	743.1	99.86
160	1.270	1.222	1.212	1.254	1.195	1.249	1.251	1.178	150-160	0.5604	743.6	99.94
170	1.253	1.237	1.212	1.251	1.205	1.207	1.257	1.192	160-170	0.3507	744.0	99.98
180	1.197	1.208	1.281	1.206	1.246	1.207	1.185	1.221	170-180	0.1172	744.1	100.00
DEG	LUMINOUS INTENSITY:cd								UNIT:lm			

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:24DEG
 Operators:Chris
 Test Date:2014-04-10

γ Range: 0 - 180DEG
 γ Interval: 5.0DEG
 Test System:EVERFINE GO-2000A SYSTEM V1.0.210
 Humidity:53%
 Test Distance:8.000m [K=1.0000]
 Remarks: Famco FHL605

WEC AND CCEC

NAME: 140075_LD605 Famco Sample	TYPE:	WEIGHT:
DIMENSION:	SPECIFICATION:	SERIAL No.:
MANUFACTURER: Legrand Australia	SURFACE:	PROTECTION ANGLE:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.157	.089	.028	.150	.086	.027	.137	.079	.025	.126	.072	.023	.115	.066	.021	
2.0	.148	.081	.025	.142	.078	.024	.131	.073	.023	.121	.068	.021	.112	.063	.020	
3.0	.139	.074	.022	.134	.072	.022	.125	.068	.021	.116	.064	.020	.108	.060	.019	
4.0	.131	.068	.020	.127	.066	.020	.119	.063	.019	.112	.060	.018	.105	.057	.017	
5.0	.124	.063	.018	.120	.062	.018	.113	.059	.017	.107	.057	.017	.101	.054	.016	
6.0	.118	.059	.017	.114	.058	.017	.108	.056	.016	.103	.053	.016	.098	.051	.015	
7.0	.112	.055	.016	.109	.054	.015	.104	.053	.015	.099	.051	.015	.094	.049	.014	
8.0	.107	.052	.015	.104	.051	.015	.100	.050	.014	.095	.048	.014	.091	.047	.014	
9.0	.102	.049	.014	.100	.049	.014	.096	.047	.013	.092	.046	.013	.088	.045	.013	
10.0	.098	.047	.013	.096	.046	.013	.092	.045	.013	.089	.044	.013	.085	.043	.012	

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)									
0.0	.197	.197	.197	.168	.168	.168	.115	.115	.115	.066	.066	.066	.021	.021	.021	
1.0	.176	.164	.153	.151	.140	.131	.103	.097	.091	.059	.056	.053	.019	.018	.017	
2.0	.159	.139	.122	.136	.119	.105	.093	.083	.073	.054	.048	.043	.017	.016	.014	
3.0	.145	.120	.099	.125	.103	.086	.086	.072	.060	.049	.042	.036	.016	.014	.012	
4.0	.134	.105	.082	.115	.090	.071	.079	.063	.050	.046	.037	.030	.015	.012	.010	
5.0	.124	.093	.069	.107	.080	.060	.074	.056	.043	.043	.033	.025	.014	.011	.008	
6.0	.116	.083	.059	.100	.072	.052	.069	.050	.037	.040	.030	.022	.013	.010	.007	
7.0	.109	.075	.051	.094	.065	.045	.065	.046	.032	.038	.027	.019	.012	.009	.006	
8.0	.103	.069	.045	.088	.059	.039	.061	.042	.028	.036	.025	.017	.012	.008	.006	
9.0	.097	.063	.040	.084	.055	.035	.058	.039	.025	.034	.023	.015	.011	.007	.005	
10.0	.093	.059	.036	.080	.051	.031	.055	.036	.022	.032	.021	.013	.010	.007	.004	

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 24DEG
 Operators: Chris
 Test Date: 2014-04-10

γ Range: 0 - 180DEG
 γ Interval: 5.0DEG
 Test System: EVERFINE GO-2000A SYSTEM V1.0.210
 Humidity: 53%
 Test Distance: 8.000m [K=1.0000]
 Remarks: Famco FHL605

Uncorrected UGR Table

NAME: 140075_LD605 Famco Sample						TYPE:					WEIGHT:				
DIMENSION:						SPECIFICATION:					SERIAL No.:				
MANUFACTURER: Legrand Australia						SURFACE:					PROTECTION ANGLE:				
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise									
x = 2H y = 2H	1.1	1.8	1.3	2.0	2.2	1.5	2.3	1.7	2.5	2.6	1.5	2.3	1.7	2.5	2.6
3H	1.0	1.7	1.2	1.9	2.1	1.4	2.1	1.7	2.3	2.5	1.4	2.1	1.7	2.3	2.5
4H	1.0	1.6	1.2	1.9	2.1	1.4	2.1	1.7	2.3	2.5	1.4	2.1	1.7	2.3	2.5
6H	1.0	1.6	1.3	1.9	2.1	1.4	2.0	1.7	2.3	2.5	1.4	2.0	1.7	2.3	2.5
8H	1.0	1.6	1.3	1.9	2.2	1.4	2.0	1.7	2.3	2.6	1.4	2.0	1.7	2.3	2.6
12H	1.0	1.6	1.4	1.9	2.2	1.4	2.0	1.8	2.3	2.6	1.4	2.0	1.8	2.3	2.6
4H 2H	0.9	1.6	1.2	1.8	2.0	1.3	2.0	1.6	2.2	2.4	1.3	2.0	1.6	2.2	2.4
3H	0.8	1.4	1.1	1.7	2.0	1.2	1.8	1.5	2.1	2.4	1.2	1.8	1.5	2.1	2.4
4H	0.8	1.4	1.2	1.7	2.0	1.2	1.8	1.6	2.1	2.4	1.2	1.8	1.6	2.1	2.4
6H	0.9	1.4	1.3	1.8	2.1	1.3	1.8	1.7	2.1	2.5	1.3	1.8	1.7	2.1	2.5
8H	1.0	1.5	1.4	1.8	2.2	1.4	1.8	1.8	2.2	2.6	1.4	1.8	1.8	2.2	2.6
12H	1.1	1.5	1.5	1.8	2.2	1.4	1.8	1.9	2.2	2.6	1.4	1.8	1.9	2.2	2.6
8H 4H	0.7	1.2	1.1	1.5	1.9	1.1	1.6	1.5	1.9	2.3	1.1	1.6	1.5	1.9	2.3
6H	0.9	1.3	1.4	1.7	2.1	1.3	1.6	1.7	2.0	2.5	1.3	1.6	1.7	2.0	2.5
8H	1.1	1.4	1.5	1.8	2.3	1.4	1.7	1.9	2.2	2.6	1.4	1.7	1.9	2.2	2.6
12H	1.1	1.4	1.6	1.9	2.4	1.5	1.8	2.0	2.3	2.8	1.5	1.8	2.0	2.3	2.8
12H 4H	0.7	1.1	1.1	1.5	1.9	1.1	1.5	1.5	1.9	2.3	1.1	1.5	1.5	1.9	2.3
6H	0.9	1.2	1.4	1.7	2.1	1.3	1.6	1.7	2.0	2.5	1.3	1.6	1.7	2.0	2.5
8H	1.1	1.4	1.6	1.8	2.3	1.4	1.7	1.9	2.2	2.7	1.4	1.7	1.9	2.2	2.7
Variations with the observer position at spacings:															
S = 1.0H	+ 2.4 / - 4.1					+ 2.5 / - 3.9									
1.5H	+ 2.5 / - 6.0					+ 2.8 / - 6.3									
2.0H	+ 5.8 / - 4.8					+ 5.9 / - 5.4									

CIE Pub.117 Corrected 744.1 lm Total Lamp Luminous Flux. (8log(F/F0) = -1.0)

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:24DEG
Operators:Chris
Test Date:2014-04-10

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-2000A SYSTEM V1.0.210
Humidity:53%
Test Distance:8.000m [K=1.0000]
Remarks: Famco FHL605

UTILIZATION FACTORS TABLE

NAME: 140075_LD605 Famco Sample	TYPE:	WEIGHT:
DIMENSION:	SPECIFICATION:	SERIAL No.:
MANUFACTURER: Legrand Australia	SURFACE:	PROTECTION ANGLE:

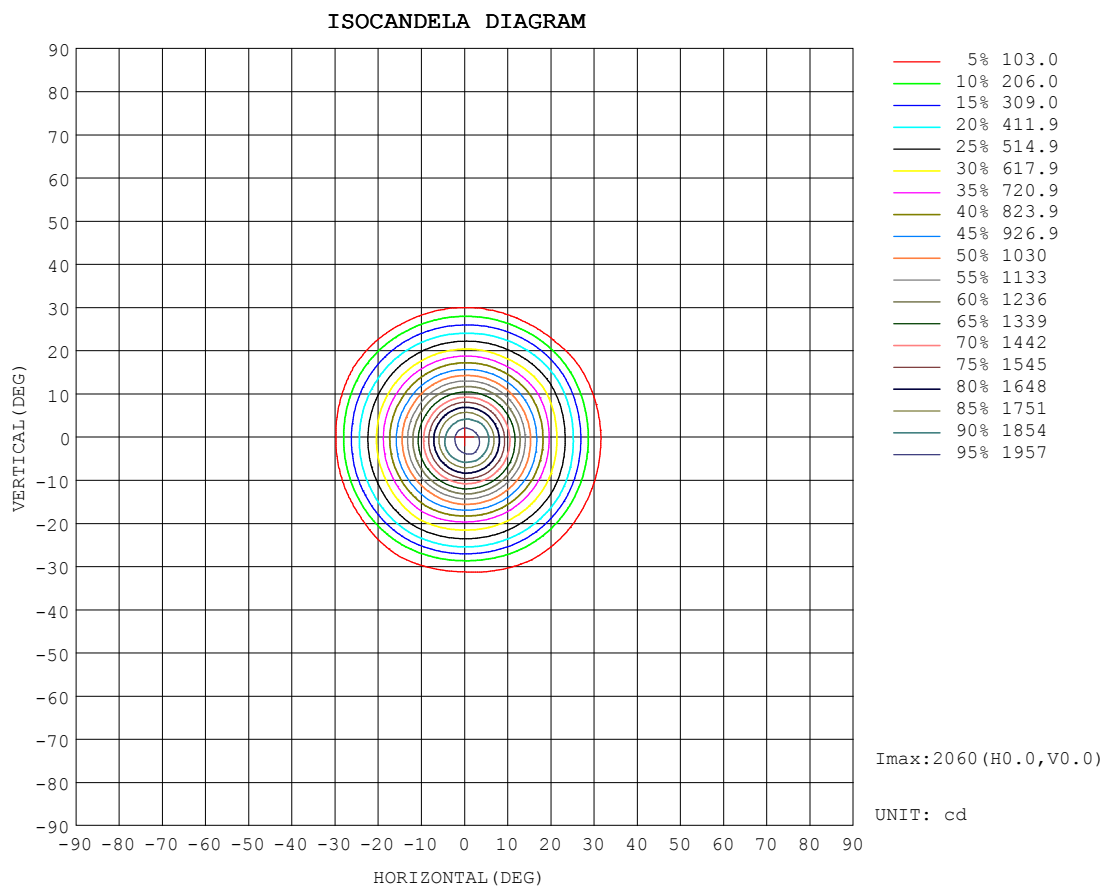
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) k(RI) x RCR = 5									
k = 0.60	87	80	76	86	80	76	85	79	76	72
0.80	94	88	84	93	88	84	92	87	84	80
1.00	99	93	89	98	93	89	96	92	88	84
1.25	103	97	94	102	97	94	100	96	93	88
1.50	105	101	97	104	100	97	102	98	96	91
2.00	108	104	101	107	103	100	104	101	98	93
2.50	110	106	103	108	105	102	105	102	100	94
3.00	111	108	105	110	107	104	106	104	102	95
4.00	113	111	108	111	109	107	108	106	104	97
5.00	115	112	111	112	111	109	108	107	106	98
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 24DEG
 Operators: Chris
 Test Date: 2014-04-10

γ Range: 0 - 180DEG
 γ Interval: 5.0DEG
 Test System: EVERFINE GO-2000A SYSTEM V1.0.210
 Humidity: 53%
 Test Distance: 8.000m [K=1.0000]
 Remarks: Famco FHL605

ISOCANDELA DIAGRAM

NAME: 140075_LD605 Famco Sample	TYPE:	WEIGHT:
DIMENSION:	SPECIFICATION:	SERIAL No.:
MANUFACTURER: Legrand Australia	SURFACE:	PROTECTION ANGLE:

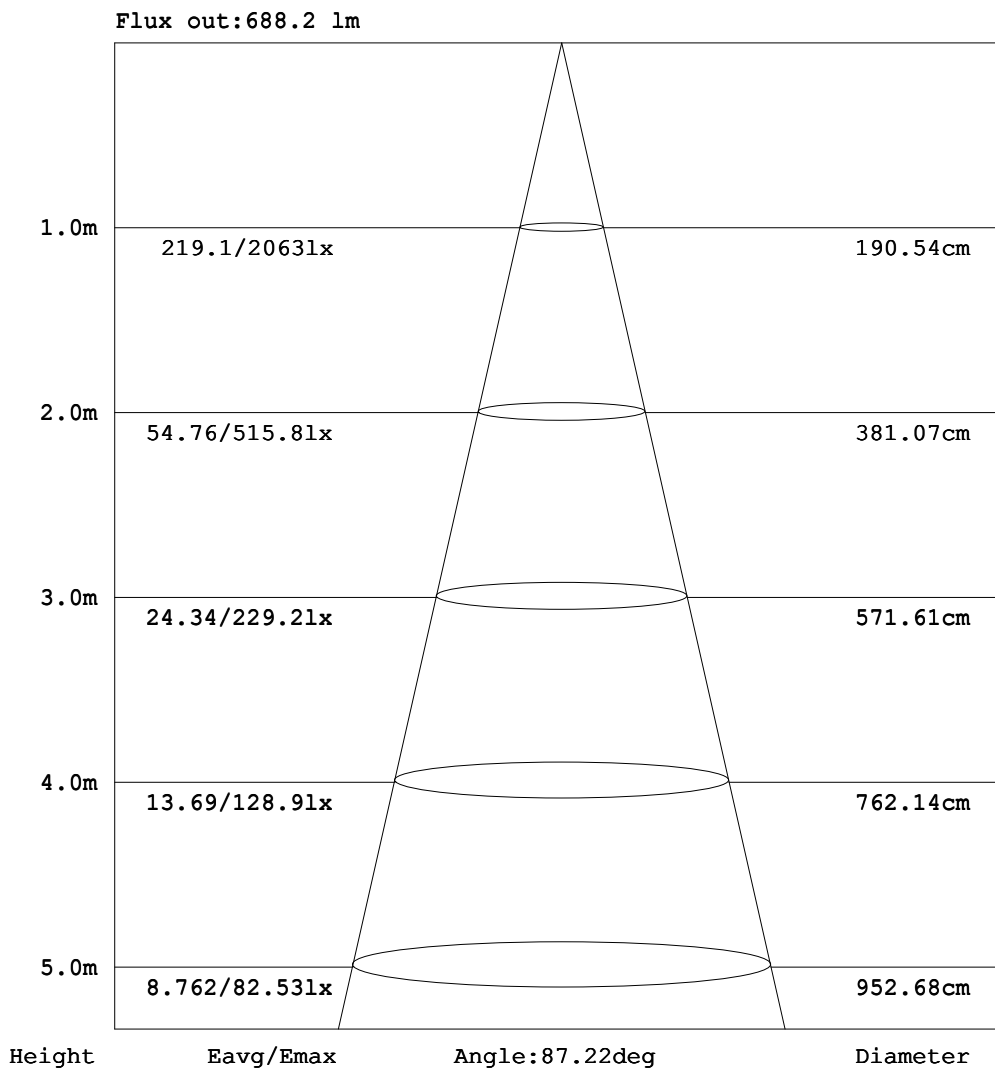


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:24DEG
Operators:Chris
Test Date:2014-04-10

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-2000A SYSTEM V1.0.210
Humidity:53%
Test Distance:8.000m [K=1.0000]
Remarks: Famco FHL605

AAI Figure

NAME: 140075_ID605 Famco Sample	TYPE:	WEIGHT:
DIMENSION:	SPECIFICATION:	SERIAL No.:
MANUFACTURER: Legrand Australia	SURFACE:	PROTECTION ANGLE:



Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:24DEG
Operators:Chris
Test Date:2014-04-10

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-2000A SYSTEM V1.0.210
Humidity:53%
Test Distance:8.000m [K=1.0000]
Remarks: Famco FHL605

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: 140075_LD605 Famco Sample	TYPE:	WEIGHT:
DIMENSION:	SPECIFICATION:	SERIAL No.:
MANUFACTURER: Legrand Australia	SURFACE:	PROTECTION ANGLE:

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	2060	2058	2063	2061	2056	2055	2060	2058	2063	2061	2056	2055						
5	1902	1928	1943	1926	1897	1858	1828	1804	1794	1807	1825	1860						
10	1482	1520	1530	1518	1478	1436	1395	1361	1358	1368	1396	1433						
15	1050	1084	1087	1080	1040	1013	983	954	958	964	991	1013						
20	690	709	713	698	711	654	638	629	626	636	646	698						
25	422	454	448	443	438	398	379	358	353	354	380	417						
30	127	130	142	122	122	98.3	90.5	101	85.2	99.7	91.4	114						
35	50.8	50.7	50.4	47.2	46.5	45.1	47.1	50.1	51.6	52.2	50.9	48.9						
40	48.1	45.1	44.5	47.9	54.5	53.0	55.3	58.2	59.3	60.8	60.2	51.0						
45	45.3	40.7	41.3	49.0	64.5	63.0	63.7	62.2	56.8	56.6	56.7	48.4						
50	28.3	28.0	29.3	36.3	40.8	39.7	39.9	37.3	30.4	29.8	28.8	28.1						
55	6.43	8.94	9.41	12.1	9.43	9.13	9.00	8.69	6.94	6.50	6.07	6.18						
60	2.47	2.37	2.36	2.32	2.36	2.29	2.25	2.47	2.51	2.50	2.54	2.44						
65	1.91	1.87	1.81	1.83	1.84	1.84	1.84	1.92	2.02	2.07	1.98	2.07						
70	1.67	1.68	1.71	1.71	1.73	1.66	1.66	1.71	1.71	1.69	1.73	1.70						
75	1.52	1.48	1.45	1.48	1.53	1.45	1.48	1.62	1.62	1.70	1.58	1.68						
80	1.36	1.26	1.24	1.29	1.30	1.26	1.26	1.44	1.44	1.42	1.45	1.44						
85	0.80	0.74	0.82	0.98	1.19	0.98	1.23	1.07	0.81	0.82	0.79	0.86						
90	0.00	0.00	0.00	0.31	0.72	0.36	0.64	0.33	0.00	0.00	0.00	0.00						
95	0.27	0.00	0.32	0.24	0.25	0.00	0.30	0.20	0.36	0.25	0.25	0.26						
100	0.57	0.39	0.63	0.59	0.56	0.42	0.60	0.54	0.64	0.59	0.59	0.55						
105	0.64	0.57	0.64	0.70	0.61	0.62	0.62	0.66	0.65	0.66	0.65	0.64						
110	0.67	0.70	0.68	0.64	0.67	0.67	0.64	0.67	0.68	0.67	0.72	0.73						
115	0.86	0.83	0.95	0.91	0.84	0.78	0.96	0.89	1.02	0.95	1.13	1.00						
120	1.53	1.45	1.52	1.70	1.49	1.13	1.52	1.63	1.57	1.76	1.70	1.46						
125	1.34	1.31	1.30	1.56	1.34	1.22	1.41	1.31	1.51	1.55	1.65	1.57						
130	1.46	1.22	1.41	1.32	1.32	1.25	1.51	1.24	1.58	1.41	1.58	1.63						
135	1.44	1.20	1.43	1.23	1.26	1.26	1.44	1.20	1.47	1.30	1.45	1.52						
140	1.36	1.18	1.33	1.18	1.22	1.26	1.34	1.28	1.34	1.25	1.28	1.34						
145	1.25	1.26	1.18	1.19	1.21	1.26	1.31	1.31	1.30	1.18	1.20	1.20						
150	1.16	1.21	1.20	1.16	1.21	1.26	1.26	1.31	1.23	1.20	1.19	1.16						
155	1.20	1.21	1.20	1.19	1.20	1.26	1.24	1.27	1.21	1.24	1.17	1.14						
160	1.27	1.22	1.22	1.21	1.24	1.26	1.20	1.29	1.21	1.25	1.19	1.16						
165	1.27	1.24	1.26	1.21	1.26	1.26	1.22	1.29	1.21	1.24	1.19	1.19						
170	1.25	1.20	1.27	1.21	1.26	1.24	1.20	1.23	1.19	1.26	1.20	1.18						
175	1.22	1.21	1.28	1.23	1.27	1.21	1.22	1.24	1.19	1.26	1.20	1.19						
180	1.20	1.23	1.19	1.28	1.22	1.20	1.25	1.20	1.21	1.19	1.25	1.19						

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:24DEG
Operators:Chris
Test Date:2014-04-10

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-2000A SYSTEM V1.0.210
Humidity:53%
Test Distance:8.000m [K=1.0000]
Remarks: Famco FHL605