



**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME :Viking 2X28W 240V 5DEG.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] 140207  
[TESTLAB] Legrand, Prestons, NSW, Australia  
[ISSUE DATE] 19 Aug 2014  
[MANUFAC] Legrand Australia  
[LUMCAT] 684932  
[LUMINAIRE] Weather-proof 2x28W T5 mains fitting  
[LAMP] M5T28CC  
[LAMP] Lamp Type: T5 Rating: 28W Size: 1200mm Manufacturer: Nelson Colour Temp: 4000K  
[OTHER]

**CHARACTERISTICS**

Lumens Per Lamp	2736 (2 lamps)
Total Lamp Lumens	5472
Luminaire Lumens	4736
Total Luminaire Efficiency	87 %
Luminaire Efficacy Rating (LER)	75
Total Luminaire Watts	63.15
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.42
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.46
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.27 m
Luminous Width (90-270)	0.16 m
Luminous Height	0.10 m

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6324	4131	2978
55	6900	3701	2325
65	8529	3432	1547
75	11554	3572	640
85	13785	3239	237

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	430.93	7.90	9.10
0-30	932.21	17.00	19.70
0-40	1558.66	28.50	32.90
0-60	2877.36	52.60	60.70
0-80	3993.28	73.00	84.30
0-90	4340.81	79.30	91.60
10-90	4230.00	77.30	89.30
20-40	1127.73	20.60	23.80
20-50	1797.66	32.90	38.00
40-70	1914.55	35.00	40.40
60-80	1115.92	20.40	23.60
70-80	520.07	9.50	11.00
80-90	347.53	6.40	7.30
90-110	316.93	5.80	6.70
90-120	348.96	6.40	7.40
90-130	367.79	6.70	7.80
90-150	386.80	7.10	8.20
90-180	395.63	7.20	8.40
110-180	78.71	1.40	1.70
0-180	4736.44	86.60	100.00

Total Luminaire Efficiency = 86.60%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	110.81
10-20	320.12
20-30	501.28
30-40	626.45
40-50	669.93
50-60	648.77
60-70	595.85
70-80	520.07
80-90	347.53
90-100	215.09
100-110	101.84
110-120	32.03
120-130	18.83
130-140	11.83
140-150	7.18
150-160	4.90
160-170	2.98
170-180	0.96

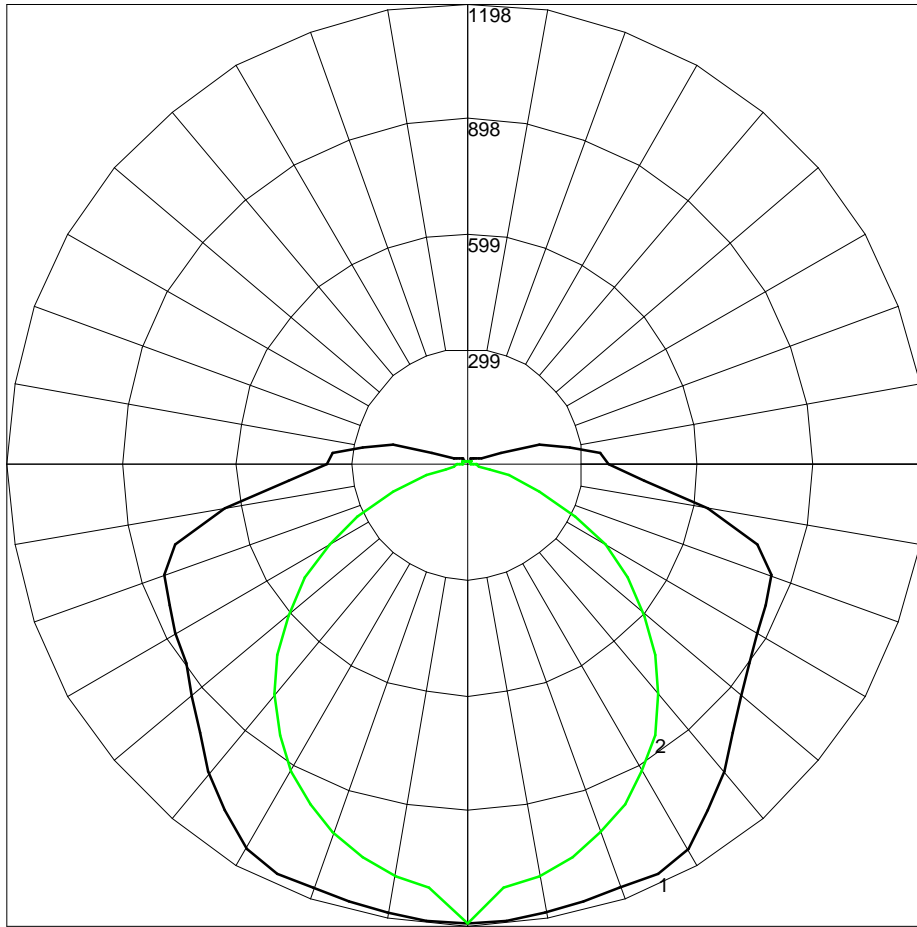
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC	80				70				50				30				10				0
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
0	101	101	101	101	98	98	98	98	92	92	92	87	87	87	82	82	82	79			
1	90	85	80	76	87	82	78	74	77	73	70	72	69	66	68	65	63	61			
2	81	72	65	59	77	70	64	58	66	60	56	61	57	53	58	54	51	49			
3	73	63	55	48	70	61	53	47	57	51	46	53	48	44	50	46	42	40			
4	66	55	47	40	64	53	46	40	50	43	38	47	41	37	44	40	36	33			
5	61	49	40	34	58	47	40	34	45	38	33	42	36	32	40	35	31	28			
6	56	44	35	30	54	42	35	29	40	33	28	38	32	27	36	31	27	25			
7	52	39	31	26	50	38	31	26	36	30	25	34	29	24	33	27	23	22			
8	48	36	28	23	46	35	28	23	33	27	22	32	26	21	30	25	21	19			
9	45	33	25	20	43	32	25	20	31	24	20	29	23	19	28	23	19	17			
10	42	30	23	18	41	30	23	18	28	22	18	27	21	17	26	21	17	15			

POLAR GRAPH



Maximum Candela = 1197.89 Located At Horizontal Angle = 25, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Vertical Plane Through Horizontal Angles (90 - 270)