



IES INDOOR REPORT

PHOTOMETRIC FILENAME : TESRD12V.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L011C
 [TESTLAB] Lumentra, Inc.
 [MORE] 160 Frobisher Drive, Unit 5
 [MORE] Waterloo, Ontario
 [MORE] NVLAP LAB CODE 500084-0
 [ISSUEDATE] 10-13-2016
 [MANUFAC] BEGHELLI CANADA INC.
 [MORE] MARKHAM, ONTARIO
 [LUMCAT] TESTA - TESRD12VD[_P
 [LUMINAIRE] BEGHELLI LED EMERGENCY REMOTE HEAD
 [MORE] PRISMATIC LENS WITH INDIVIDUAL LED LENS OPTICS
 [LAMP] NINE WHITE LEDS. LUMEN OUTPUT = 1821 LMS.
 [OTHER] 12VDC INPUT
 [OTHER] ABSOLUTE PHOTOMETRY
 [_VOLTAGE] 12.0 VDC
 [_CURRENT] 2.25 ADC
 [_WATTAGE] 27 MAX
 [_PF] 1.000
 [_TEMPERATURE] 24.2
 [_STABILIZATION] 1 HOUR 15 MINUTES
 [_LUMENS] 1821
 [_EFFICACY] 67

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1821
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	67
Total Luminaire Watts	27
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.42
Spacing Criterion (90-270)	0.42
Spacing Criterion (Diagonal)	0.42
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.35 ft (Diameter)
Luminous Width (90-270)	0.35 ft (Diameter)
Luminous Height	0.00 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	18091	18091	18091
55	13189	13189	13189
65	11717	11717	11717
75	6909	6909	6909
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0.0	7515.274
2.5	7317.148
5.0	6726.460
7.5	5743.210
10.0	4622.134
12.5	3476.445
15.0	2459.969
17.5	1669.924
20.0	1089.081
22.5	700.211
25.0	473.781
27.5	332.262
30.0	244.889
32.5	193.204
35.0	163.670
37.5	147.672
40.0	135.366
42.5	123.060
45.0	114.446
47.5	102.140
50.0	87.373
52.5	75.067
55.0	67.683
57.5	62.761
60.0	57.838
62.5	51.685
65.0	44.302
67.5	35.687
70.0	28.304
72.5	22.151
75.0	15.998
77.5	9.845
80.0	4.922
82.5	1.231
85.0	0.000
87.5	0.000
90.0	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1262.37	N.A.	69.30
0-30	1502.98	N.A.	82.50
0-40	1610.83	N.A.	88.50
0-60	1759.81	N.A.	96.60
0-80	1819.98	N.A.	99.90
0-90	1820.98	N.A.	100.00
10-90	1248.53	N.A.	68.60
20-40	348.46	N.A.	19.10
20-50	435.30	N.A.	23.90
40-70	192.15	N.A.	10.60
60-80	60.17	N.A.	3.30
70-80	16.99	N.A.	0.90
80-90	1.00	N.A.	0.10
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1820.98	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	572.45
10-20	689.92
20-30	240.61
30-40	107.84
40-50	86.84
50-60	62.14
60-70	43.17
70-80	16.99
80-90	1.00
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

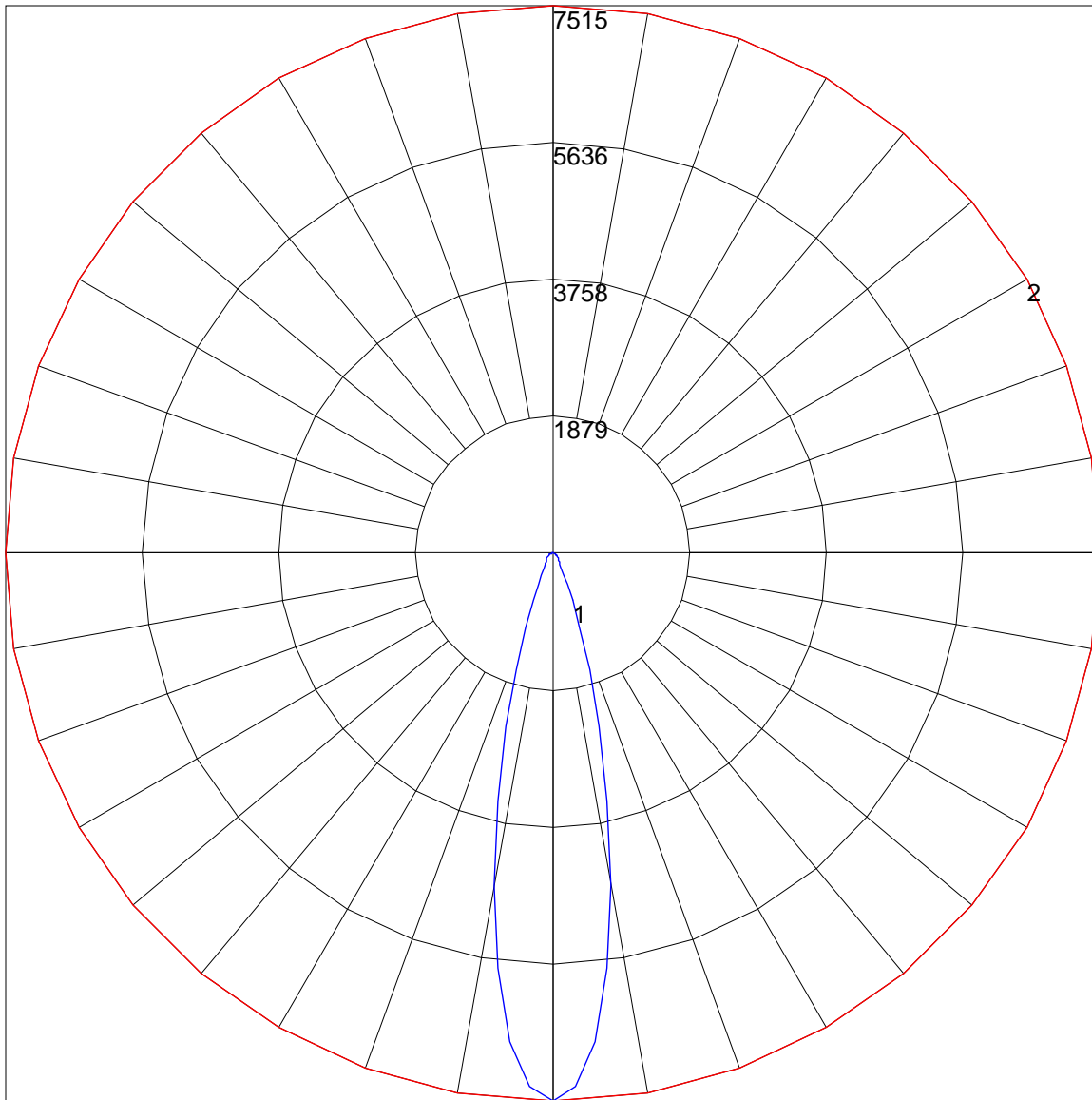
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	90
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	89	87	85
4	101	94	90	86	99	93	89	85	91	87	84	89	86	84	87	85	83	81
5	97	90	85	81	96	89	85	81	87	83	80	86	82	80	84	81	79	78
6	94	86	81	78	92	86	81	78	84	80	77	83	79	76	82	78	76	75
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72
8	88	80	75	72	87	79	75	72	78	74	71	77	74	71	77	73	71	70
9	85	77	72	69	84	77	72	69	76	72	69	75	71	69	74	71	69	67
10	82	75	70	67	82	74	70	67	74	70	67	73	69	67	72	69	66	65

POLAR GRAPH



Maximum Candela = 7515.274 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0)