

LED Lighting Systems, Technologies & Manufacturing 

IES INDOOR REPORT
PHOTOMETRIC FILENAME : NLS12164K0010D010DC120VAN.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 29
 [ISSUE DATE] 5/2/2017 16:54
 [MANUFAC] BOCA FLASHER INC
 [LUMCAT] HPNLS-HO
 [LUMINAIRE] HPNLS-HO, 15W, 4K0, 10° X 10°, 120V, CLEAR ANODIZED, CLEAR LENS
 [LAMP CAT] HPNLS-HO
 [LAMP]
 [_VOLTAGE] 120.9 V
 [_CURRENT] 0.132 A
 [_POWERFACTOR] 0.976
 [TESTLAB] Boca Flasher Inc
 [_TESTINST] LSG-1800B
 [_TESTDIST] 9.506 m

CHARACTERISTICS

Lumens Per Lamp	1334.7 (1 lamp)
Total Lamp Lumens	1334.7
Luminaire Lumens	1335
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	15.61
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.28
Spacing Criterion (90-270)	0.30
Spacing Criterion (Diagonal)	0.26
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.31 m
Luminous Width (90-270)	0.04 m
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3181	3392	2614
55	3835	3572	3136
65	3192	2245	1298
75	1546	191	0
85	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1227.22	91.90	91.90
0-30	1260.33	94.40	94.40
0-40	1279.32	95.90	95.90
0-60	1320.1	98.90	98.90
0-80	1334.65	100.00	100.00
0-90	1334.67	100.00	100.00
10-90	408.49	30.60	30.60
20-40	52.10	3.90	3.90
20-50	72.06	5.40	5.40
40-70	52.80	4.00	4.00
60-80	14.55	1.10	1.10
70-80	2.54	0.20	0.20
80-90	0.01	0.00	0.00
90-110	0.00	0.00	0.00
90-120	0.00	0.00	0.00
90-130	0.00	0.00	0.00
90-150	0.00	0.00	0.00
90-180	0.00	0.00	0.00
110-180	0.00	0.00	0.00
0-180	1334.67	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	926.18
10-20	301.04
20-30	33.11
30-40	18.99
40-50	19.96
50-60	20.82
60-70	12.01
70-80	2.54
80-90	0.01
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

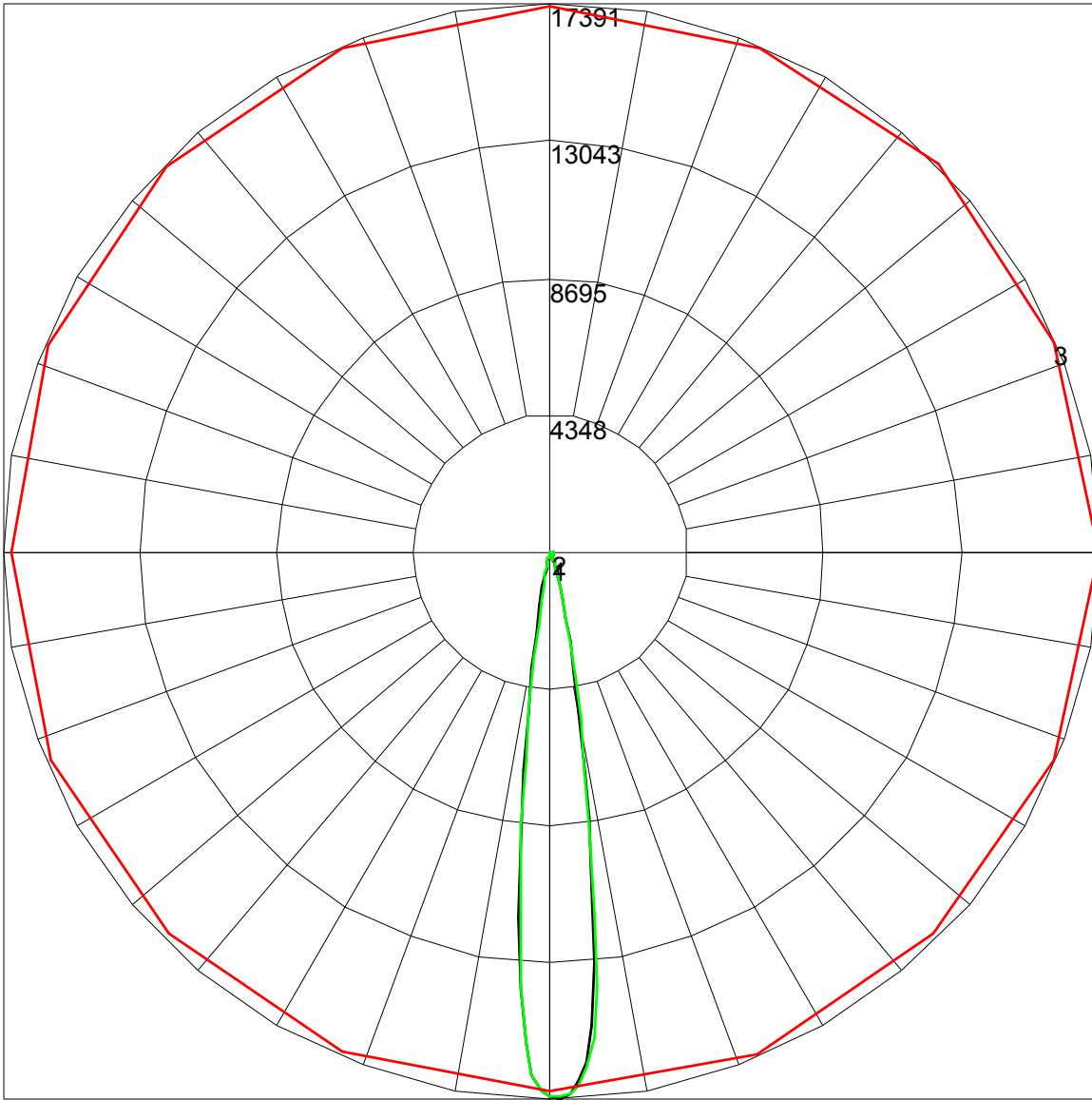
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	0
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98	0
2	113	110	107	105	111	108	106	104	105	103	102	102	101	99	98	97	96	96	0
3	110	106	103	101	108	105	102	100	102	100	98	100	98	97	98	97	96	94	0
4	108	103	100	98	106	102	99	97	100	98	96	99	96	95	97	95	94	93	0
5	105	101	97	95	104	100	97	95	98	96	94	97	95	93	96	94	92	91	0
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90	0
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	94	91	90	89	0
8	100	95	92	90	99	95	92	90	94	91	90	93	91	89	93	90	89	88	0
9	99	94	91	89	98	94	91	89	93	90	88	92	90	88	92	89	88	87	0
10	98	93	90	88	97	92	90	88	92	89	87	91	89	87	91	89	87	86	0

POLAR GRAPH



Maximum Candela = 17390.62 Located At Horizontal Angle = 45, Vertical Angle = 1

1 - Vertical Plane Through Horizontal Angles (0 - 180)

2 - Vertical Plane Through Horizontal Angles (90 - 270)

3 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)