

LED Lighting Systems, Technologies & Manufacturing 

IES INDOOR REPORT
PHOTOMETRIC FILENAME : NLS12163K5010D010DS120VAN.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 26
 [ISSUE DATE] 5/2/2017 13:22
 [MANUFAC] Boca Flasher Inc
 [LUMCAT] HPNLS-HO
 [LUMINAIRE] HPNLS-HO, 15W, 3K5, 10° X 10°, 120V, CLEAR ANODIZED, SATIN ICE LENS
 [LAMP CAT] HPNLS-HO
 [LAMP]
 [_VOLTAGE] 120.1 V
 [_CURRENT] 0.126 A
 [_POWERFACTOR] 0.980
 [TESTLAB] Boca Flasher Inc
 [_TESTINST] LSG-1800B
 [_TESTDIST] 9.506 m

CHARACTERISTICS

Lumens Per Lamp	805.6 (1 lamp)
Total Lamp Lumens	805.6
Luminaire Lumens	806
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	54
Total Luminaire Watts	14.93
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.36
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	19814	20317	20390
55	19042	19811	19927
65	18029	19152	19335
75	16111	18157	18508
85	13939	19790	21337

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	103.22	12.80	12.80
0-30	217.89	27.00	27.00
0-40	354.87	44.10	44.00
0-60	624.55	77.50	77.50
0-80	783.53	97.30	97.30
0-90	805.63	100.00	100.00
10-90	778.80	96.70	96.70
20-40	251.64	31.20	31.20
20-50	393.07	48.80	48.80
40-70	369.03	45.80	45.80
60-80	158.98	19.70	19.70
70-80	59.63	7.40	7.40
80-90	22.11	2.70	2.70
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	805.63	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	26.83
10-20	76.40
20-30	114.67
30-40	136.97
40-50	141.42
50-60	128.25
60-70	99.35
70-80	59.63
80-90	22.11
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

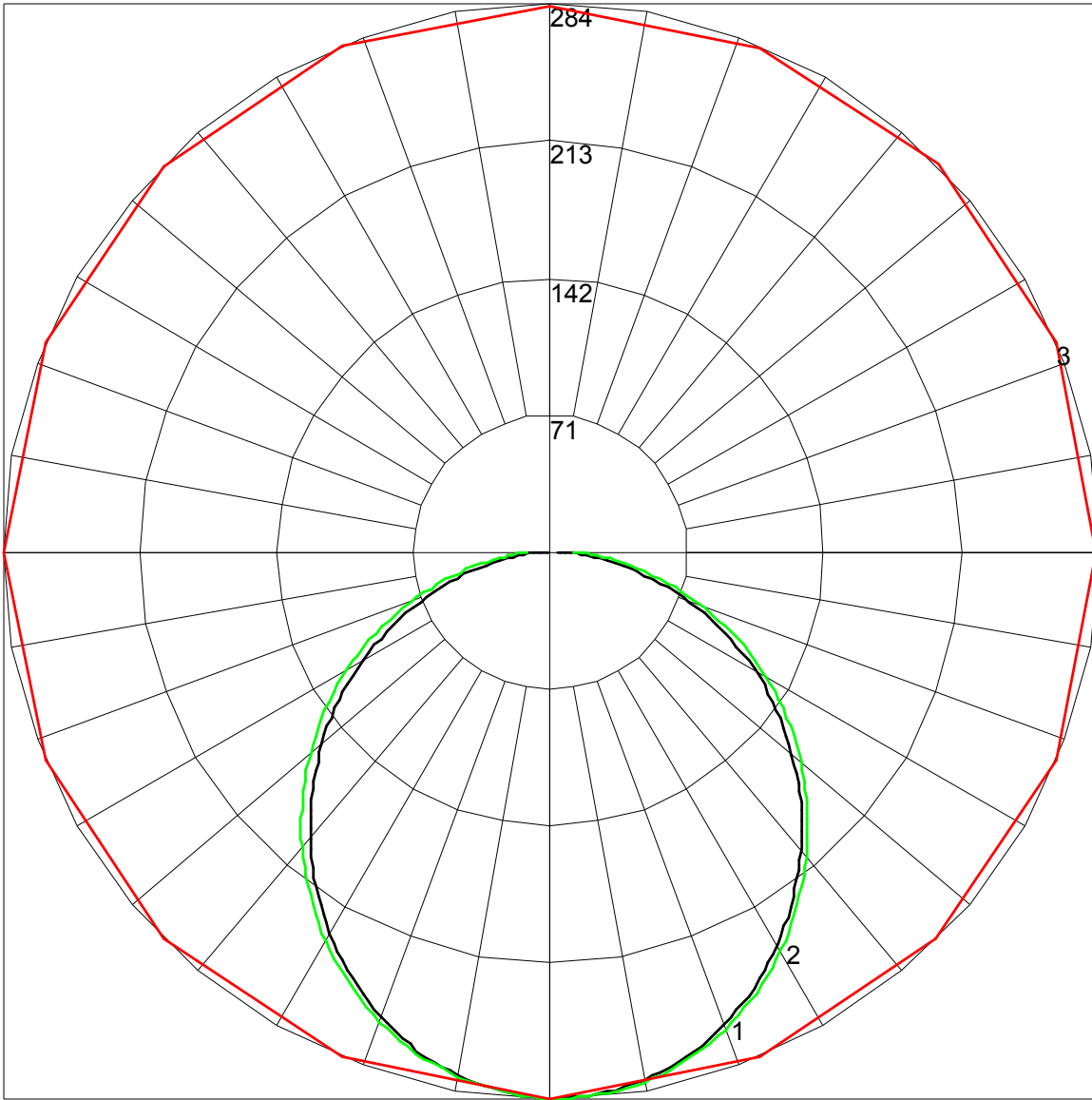
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 284.37 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.)