

LED Lighting Systems, Technologies & Manufacturing 

IES INDOOR REPORT

PHOTOMETRIC FILENAME : NLS12163K5120D120DC120VAH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 18
 [ISSUE DATE] 5/2/2017 08:58
 [MANUFAC] Boca Flasher Inc.
 [LUMCAT] HPNLS-HO
 [LUMINAIRE] HPNLS-HO, 15W, 3K5, 120° X 120°, 120V, CLEAR ANODIZED, CLEAR LENS, SLANTED SQUARE BAFFLE
 [LAMPCAT] HPNLS-HO
 [LAMP]
 [_VOLTAGE] 120.0 V
 [_CURRENT] 0.124 A
 [_POWERFACTOR] 0.984
 [TESTLAB] Boca Flasher Inc
 [_TESTINST] LSG-1800B
 [_TESTDIST] 9.506 m

CHARACTERISTICS

Lumens Per Lamp	437.6 (1 lamp)
Total Lamp Lumens	437.6
Luminaire Lumens	438
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	30
Total Luminaire Watts	14.65
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.68
Spacing Criterion (90-270)	1.40
Spacing Criterion (Diagonal)	0.80
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	30713	4101	7237
55	1310	5756	8969
65	941	3133	5830
75	353	436	498
85	0	26	70

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	150.13	34.30	34.30
0-30	250.67	57.30	57.30
0-40	308.66	70.50	70.50
0-60	428.71	98.00	98.00
0-80	437.56	100.00	100.00
0-90	437.59	100.00	100.00
10-90	398.91	91.20	91.20
20-40	158.53	36.20	36.20
20-50	244.56	55.90	55.90
40-70	127.88	29.20	29.20
60-80	8.85	2.00	2.00
70-80	1.03	0.20	0.20
80-90	0.03	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	437.59	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	38.69
10-20	111.44
20-30	100.54
30-40	57.99
40-50	86.03
50-60	34.02
60-70	7.83
70-80	1.03
80-90	0.03
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

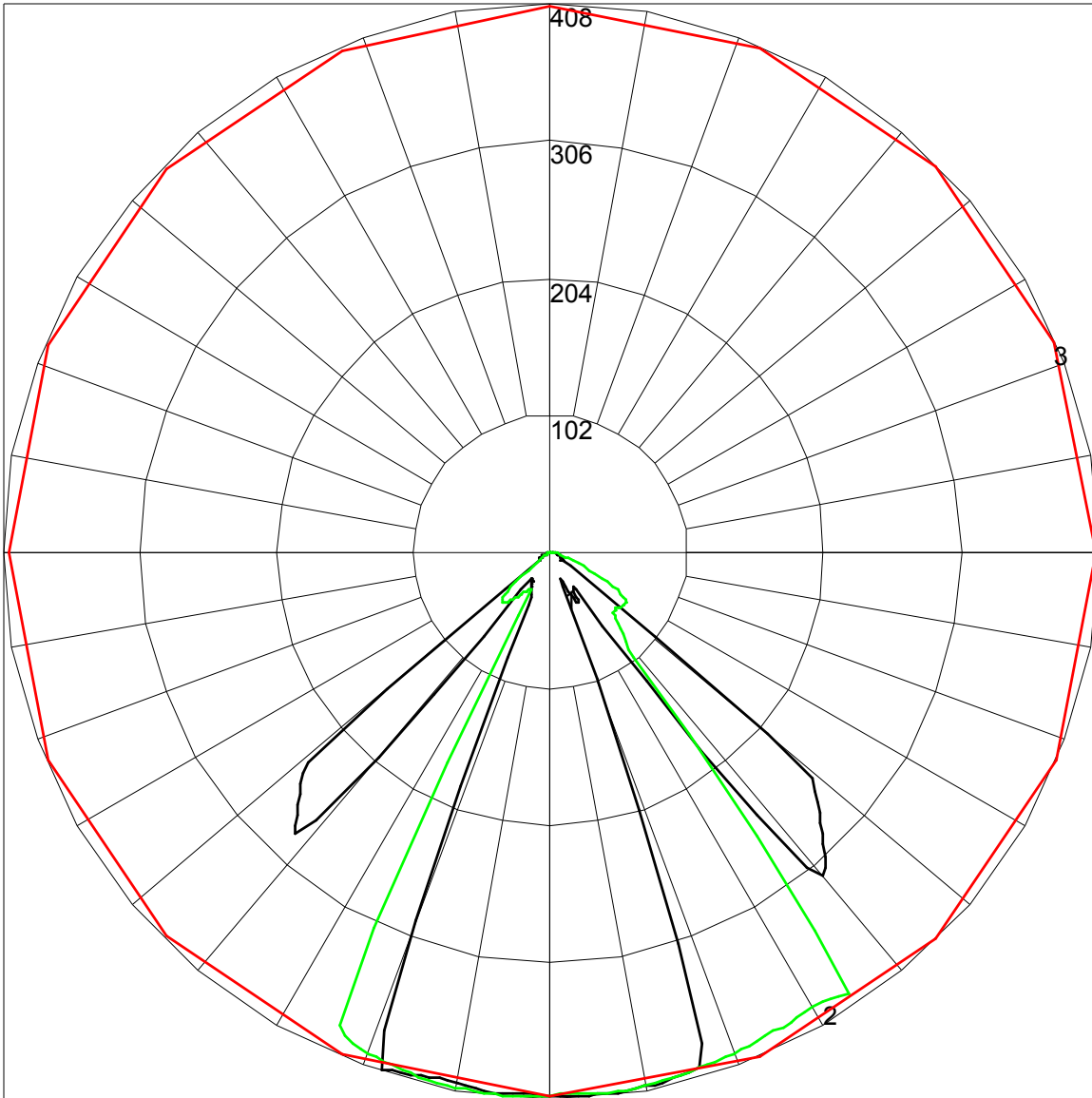
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	110	107	104	110	107	105	102	103	101	99	99	98	96	96	95	94	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83
3	99	92	86	82	97	91	85	81	88	83	80	85	82	78	83	80	77	76
4	93	85	78	74	92	84	78	73	81	76	72	79	75	71	77	74	70	69
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63
6	83	73	66	61	81	72	65	61	70	64	60	69	64	60	67	63	59	58
7	78	68	61	56	77	67	60	56	66	60	56	64	59	55	63	58	55	53
8	74	63	56	52	73	63	56	52	61	56	51	60	55	51	59	55	51	49
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	48	46
10	66	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	43

POLAR GRAPH



Maximum Candela = 407.77 Located At Horizontal Angle = 292.5, Vertical Angle = 7

- # 1 - Vertical Plane Through Horizontal Angles (0 - 180)
- # 2 - Vertical Plane Through Horizontal Angles (90 - 270)
- # 3 - Horizontal Cone Through Vertical Angle (7) (Through Max. Cd.)