

LED Lighting Systems, Technologies & Manufacturing 

IES INDOOR REPORT
PHOTOMETRIC FILENAME : NLS12163K5120D120DC120VAL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 12
[ISSUE DATE] 5/1/2017 14:13
[MANUFAC] Boca Flasher Inc.
[LUMCAT] HPNLS-HO
[LUMINAIRE] HPNLS-HO, 15W, 3K5, 120° X 120°, 120V, CLEAR ANODIZED, CLEAR LENS, KICKER SQUARE BAFFLE
[LAMPCAT] HPNLS-HO
[LAMP]
[_VOLTAGE] 120.2 V
[_CURRENT] 0.124 A
[_POWERFACTOR] 0.984
[TESTLAB] Boca Flasher Inc
[_TESTINST] LSG-1800B
[_TESTDIST] 9.506 m

CHARACTERISTICS

Lumens Per Lamp	233.8 (1 lamp)
Total Lamp Lumens	233.8
Luminaire Lumens	234
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	16
Total Luminaire Watts	14.69
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.62
Spacing Criterion (90-270)	0.98
Spacing Criterion (Diagonal)	0.64
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	22719	2453	6161
55	1215	2372	1333
65	449	693	2436
75	38	2730	3613
85	0	743	2886

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	112.94	48.30	48.30
0-30	156.36	66.90	66.90
0-40	181.37	77.60	77.60
0-60	228.86	97.90	97.90
0-80	233.33	99.80	99.80
0-90	233.84	100.00	100.00
10-90	195.28	83.50	83.50
20-40	68.43	29.30	29.30
20-50	110.49	47.30	47.30
40-70	49.85	21.30	21.30
60-80	4.47	1.90	1.90
70-80	2.10	0.90	0.90
80-90	0.51	0.20	0.20
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	233.84	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	38.56
10-20	74.38
20-30	43.42
30-40	25.01
40-50	42.06
50-60	5.43
60-70	2.37
70-80	2.10
80-90	0.51
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

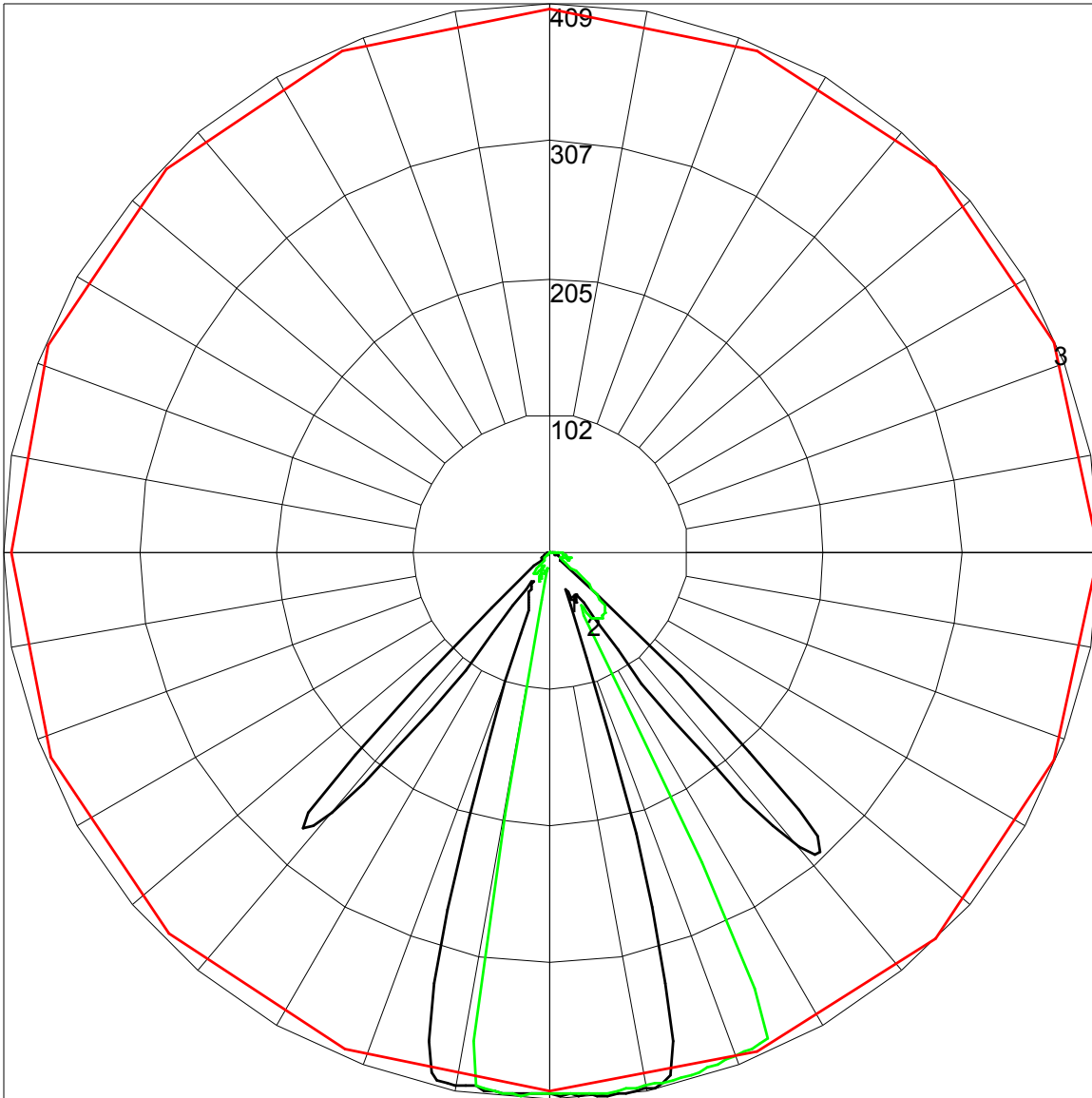
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93	
2	107	102	98	95	105	101	97	94	97	94	91	94	92	89	92	89	88	86	
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	86	84	81	80	
4	97	89	83	79	95	88	82	78	86	81	77	84	80	77	82	78	76	74	
5	92	83	77	73	90	82	77	73	81	76	72	79	75	71	77	74	71	69	
6	87	78	72	68	86	78	72	68	76	71	67	75	70	67	73	69	66	65	
7	83	74	68	64	82	73	68	63	72	67	63	71	66	63	70	66	62	61	
8	79	70	64	60	78	69	64	60	68	63	60	67	63	59	66	62	59	58	
9	76	66	61	57	75	66	60	57	65	60	56	64	59	56	63	59	56	55	
10	73	63	58	54	72	63	57	54	62	57	54	61	57	53	60	56	53	52	

POLAR GRAPH



Maximum Candela = 409.11 Located At Horizontal Angle = 0, Vertical Angle = 8

- # 1 - Vertical Plane Through Horizontal Angles (0 - 180)
- # 2 - Vertical Plane Through Horizontal Angles (90 - 270)
- # 3 - Horizontal Cone Through Vertical Angle (8) (Through Max. Cd.)