

LED Lighting Systems, Technologies & Manufacturing 

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : NLS12163K5030D030DC120VAN.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] 3  
 [ISSUE DATE] 4/28/2017 11:20  
 [MANUFAC] Boca Flasher Inc.  
 [LUMCAT] HPNLS-HO  
 [LUMINAIRE] HPNLS-HO, 15W, 3K5, 30° X 30°, 120V, CLEAR ANODIZED, CLEAR LENS  
 [LAMP CAT] HPNLS-HO  
 [LAMP]  
 [\_VOLTAGE] 120.1 V  
 [\_CURRENT] 0.127 A  
 [\_POWERFACTOR] 0.981  
 [TESTLAB] Boca Flasher Inc  
 [\_TESTINST] LSG-1800B  
 [\_TESTDIST] 9.506 m

**CHARACTERISTICS**

Lumens Per Lamp	1203.5 (1 lamp)
Total Lamp Lumens	1203.5
Luminaire Lumens	1204
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	15.02
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.58
Spacing Criterion (90-270)	0.62
Spacing Criterion (Diagonal)	0.60
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	10297	10725	9176
55	5431	5522	4215
65	3434	2943	2009
75	2294	1266	1249
85	796	227	114

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	643.35	53.50	53.50
0-30	935.86	77.80	77.80
0-40	1080.88	89.80	89.80
0-60	1183.34	98.30	98.30
0-80	1203.06	100.00	100.00
0-90	1203.53	100.00	100.00
10-90	982.16	81.60	81.60
20-40	437.53	36.40	36.40
20-50	507.16	42.10	42.10
40-70	117.03	9.70	9.70
60-80	19.72	1.60	1.60
70-80	5.15	0.40	0.40
80-90	0.47	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	1203.53	100.00	100.00

Total Luminaire Efficiency = 100.00%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	221.37
10-20	421.98
20-30	292.51
30-40	145.01
40-50	69.63
50-60	32.84
60-70	14.57
70-80	5.15
80-90	0.47
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

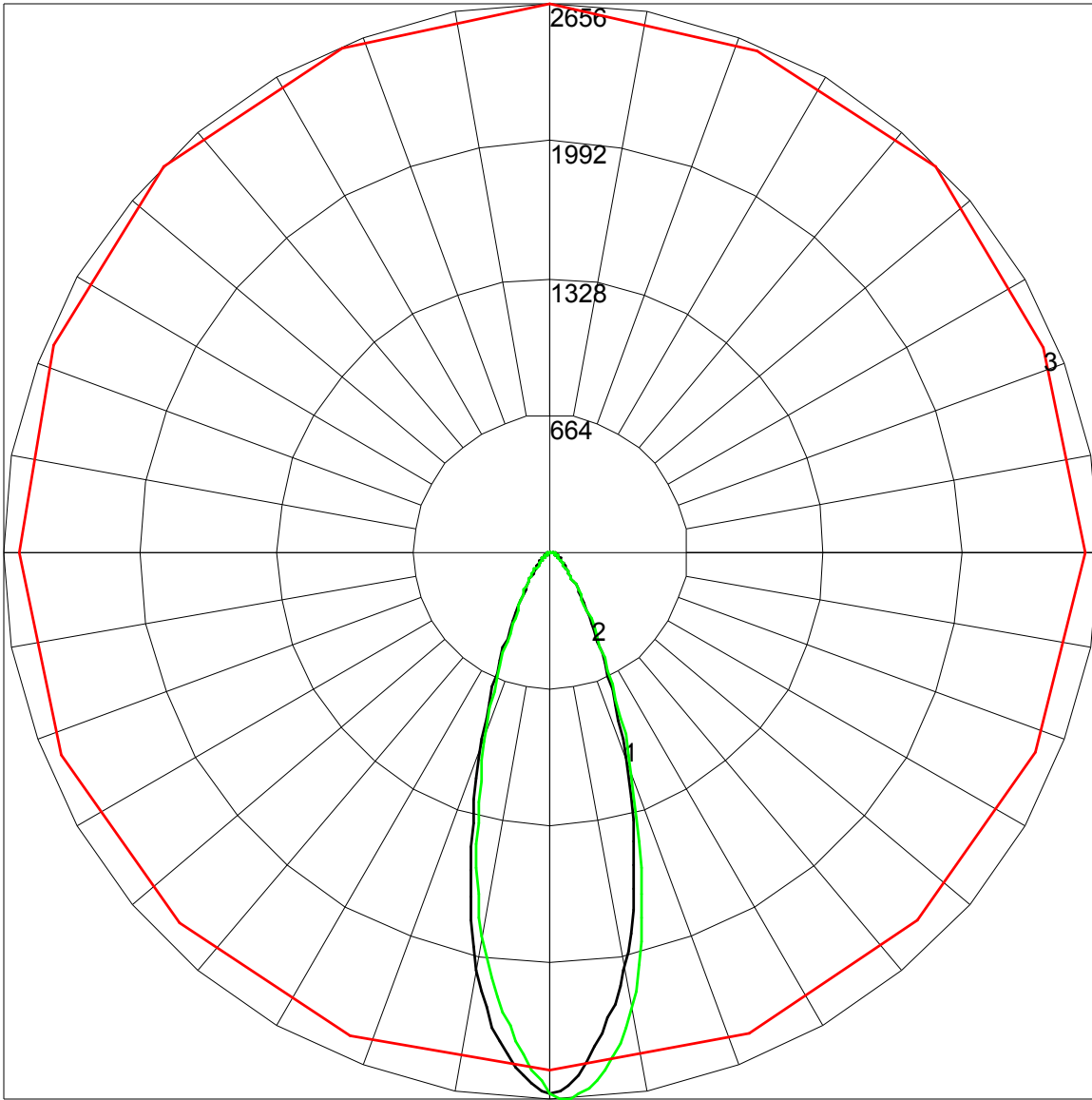
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88
3	104	97	93	89	102	96	92	88	93	90	87	91	88	86	89	86	84	83
4	99	92	87	83	97	91	86	82	89	84	81	87	83	80	85	82	79	78
5	94	87	81	77	93	86	81	77	84	80	76	82	79	76	81	78	75	74
6	90	82	77	73	89	81	76	72	80	75	72	79	74	71	77	74	71	70
7	87	78	72	69	85	77	72	68	76	71	68	75	71	68	74	70	67	66
8	83	74	69	65	82	74	69	65	73	68	65	72	67	64	71	67	64	63
9	80	71	66	62	79	70	65	62	70	65	62	69	64	61	68	64	61	60
10	77	68	63	59	76	67	62	59	67	62	59	66	62	59	65	61	58	57

POLAR GRAPH



Maximum Candela = 2655.83 Located At Horizontal Angle = 90, Vertical Angle = 2  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 3 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)