

LED Lighting Systems, Technologies & Manufacturing 

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : NLS12163K5010D010DC120VAN.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] 1  
 [ISSUE DATE] 4/28/2017 10:21  
 [MANUFAC] Boca Flasher Inc  
 [LUMCAT] HPNLS-HO  
 [LUMINAIRE] HPNLS-HO, 15W, 3K5, 10° X 10°, 120V, CLEAR ANODIZED, CLEAR LENS  
 [LAMP CAT] HPNLS-HO  
 [LAMP]  
 [\_VOLTAGE] 120.6 V  
 [\_CURRENT] 0.128 A  
 [\_POWERFACTOR] 0.981  
 [TESTLAB] Boca Flasher Inc  
 [\_TESTINST] LSG-1800B  
 [\_TESTDIST] 9.506 m

**CHARACTERISTICS**

Lumens Per Lamp	1228.9 (1 lamp)
Total Lamp Lumens	1228.9
Luminaire Lumens	1229
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	15.19
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.28
Spacing Criterion (90-270)	0.28
Spacing Criterion (Diagonal)	0.24
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	2542	2694	2615
55	3133	2797	2701
65	2599	1540	947
75	963	0	0
85	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1137.15	92.50	92.50
0-30	1166.25	94.90	94.90
0-40	1183.19	96.30	96.30
0-60	1218.12	99.10	99.10
0-80	1228.89	100.00	100.00
0-90	1228.89	100.00	100.00
10-90	361.30	29.40	29.40
20-40	46.04	3.70	3.70
20-50	63.49	5.20	5.20
40-70	44.15	3.60	3.60
60-80	10.77	0.90	0.90
70-80	1.55	0.10	0.10
80-90	0.00	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	1228.89	100.00	100.00

Total Luminaire Efficiency = 100.00%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	867.59
10-20	269.56
20-30	29.10
30-40	16.94
40-50	17.45
50-60	17.48
60-70	9.22
70-80	1.55
80-90	0.00
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

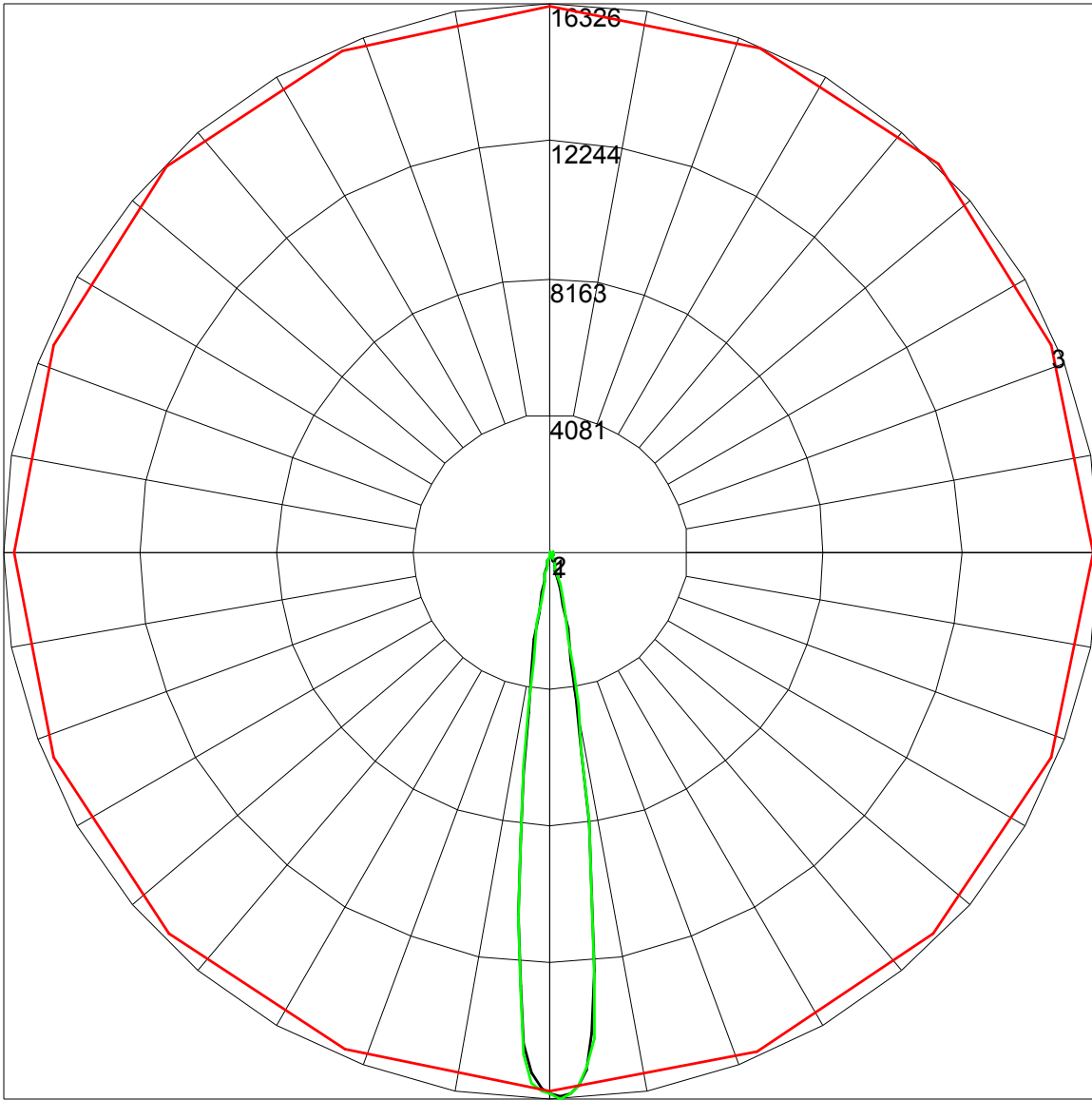
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	100	100	99	98	96	0
3	110	106	103	101	108	105	102	100	103	101	99	101	99	97	98	97	96	95	0
4	108	104	100	98	106	103	100	97	101	98	96	99	97	95	97	96	94	93	0
5	106	101	98	96	105	100	97	95	99	96	94	97	95	94	96	94	93	92	0
6	104	99	96	94	103	98	95	93	97	95	93	96	94	92	95	93	92	91	0
7	102	97	94	92	101	97	94	92	96	93	91	95	93	91	94	92	91	90	0
8	101	96	93	91	100	95	93	90	95	92	90	94	92	90	93	91	90	89	0
9	99	94	91	89	99	94	91	89	93	91	89	93	90	89	92	90	89	88	0
10	98	93	90	88	97	93	90	88	92	90	88	92	90	88	91	89	88	87	0

POLAR GRAPH



Maximum Candela = 16325.77 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.)