

LED Lighting Systems, Technologies & Manufacturing 

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : NLS12163K5030D060DC120VAN.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST]  
 [ISSUE DATE] 6/28/2017 10:31  
 [MANUFAC] Boca Flasher Inc  
 [LUMCAT] HPNLS-HO  
 [LUMINAIRE] 16W, 30°X 60°, CLEAR, CLEAR ANODIZED, 120V, 1FT  
 [LAMP CAT] SOLID COLOR  
 [LAMP] WARM WHITE, 3500K  
 [\_VOLTAGE] 120.5 V  
 [\_CURRENT] 0.127 A  
 [\_POWERFACTOR] 0.982  
 [TESTLAB] Boca Flasher Inc  
 [\_TESTINST] LSG-1800B  
 [\_TESTDIST] 9.506 m

**CHARACTERISTICS**

Lumens Per Lamp	1038.3 (1 lamp)
Total Lamp Lumens	1038.3
Luminaire Lumens	1038
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	69
Total Luminaire Watts	15.03
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.96
Spacing Criterion (90-270)	0.58
Spacing Criterion (Diagonal)	0.72
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	20660	11354	8035
55	8330	6772	5083
65	6831	4256	3387
75	6688	2703	2108
85	5055	1023	708

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	428.45	41.30	41.30
0-30	703.64	67.80	67.80
0-40	874.43	84.20	84.20
0-60	1002.64	96.60	96.60
0-80	1036.51	99.80	99.80
0-90	1038.32	100.00	100.00
10-90	906.87	87.30	87.30
20-40	445.97	43.00	43.00
20-50	532.57	51.30	51.30
40-70	151.40	14.60	14.60
60-80	33.86	3.30	3.30
70-80	10.67	1.00	1.00
80-90	1.81	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	1038.32	100.00	100.00

Total Luminaire Efficiency = 100.00%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	131.45
10-20	297.00
20-30	275.18
30-40	170.79
40-50	86.59
50-60	41.62
60-70	23.19
70-80	10.67
80-90	1.81
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

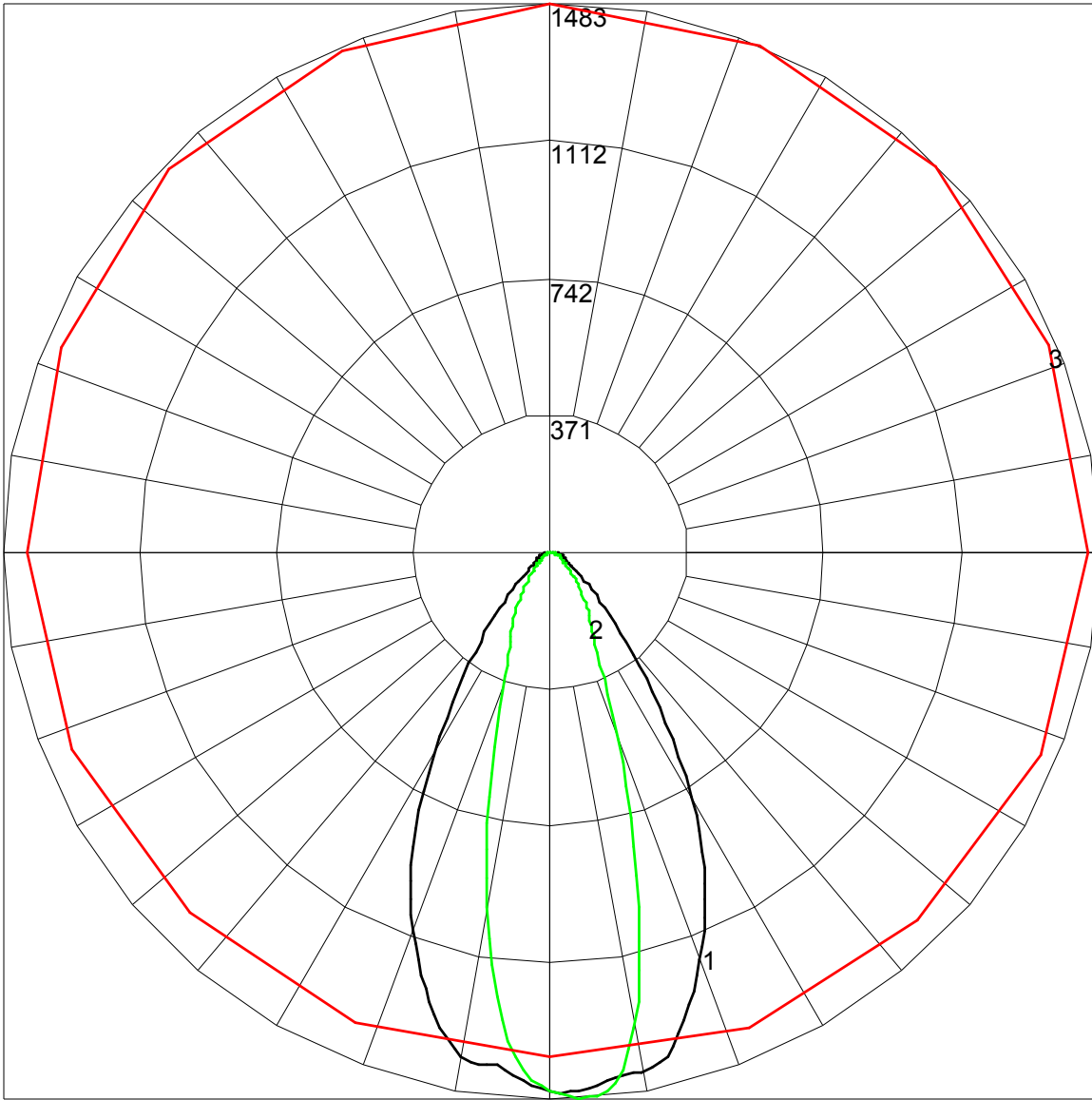
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92
2	107	102	97	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	82	86	83	80	79
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	75	73
5	91	82	76	72	89	81	76	71	79	74	71	78	73	70	76	72	69	68
6	86	77	71	66	85	76	70	66	75	70	66	73	69	65	72	68	65	63
7	82	73	66	62	81	72	66	62	71	65	62	69	65	61	68	64	61	59
8	78	68	62	58	77	68	62	58	67	62	58	66	61	57	65	60	57	56
9	75	65	59	55	73	64	59	55	63	58	54	62	58	54	62	57	54	53
10	71	61	56	52	70	61	55	52	60	55	51	59	55	51	59	54	51	50

POLAR GRAPH



Maximum Candela = 1483.25 Located At Horizontal Angle = 90, Vertical Angle = 4  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 3 - Horizontal Cone Through Vertical Angle (4) (Through Max. Cd.)