

LED Lighting Systems, Technologies & Manufacturing 

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : NLS12163K5120D120DC120VAN.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] 6  
 [ISSUE DATE] 4/28/2017 12:45  
 [MANUFAC] Boca Flasher Inc.  
 [LUMCAT] HPNLS-HO  
 [LUMINAIRE] HPNLS-HO, 15W, 3K5, 120° X 120°, 120V, CLEAR ANODIZED, CLEAR LENS  
 [LAMP CAT] HPNLS-HO  
 [LAMP]  
 [\_VOLTAGE] 120.1 V  
 [\_CURRENT] 0.124 A  
 [\_POWERFACTOR] 0.984  
 [TESTLAB] Boca Flasher Inc  
 [\_TESTINST] LSG-1800B  
 [\_TESTDIST] 9.506 m

**CHARACTERISTICS**

Lumens Per Lamp	926.7 (1 lamp)
Total Lamp Lumens	926.7
Luminaire Lumens	927
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	63
Total Luminaire Watts	14.71
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.36
Spacing Criterion (90-270)	1.42
Spacing Criterion (Diagonal)	1.46
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	30797	35985	7171
55	30656	6166	10180
65	27959	7529	12884
75	16046	6950	8328
85	2912	2020	1635

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	153.70	16.60	16.60
0-30	334.02	36.00	36.00
0-40	556.56	60.10	60.10
0-60	829.62	89.50	89.50
0-80	923.65	99.70	99.70
0-90	926.71	100.00	100.00
10-90	887.58	95.80	95.80
20-40	402.86	43.50	43.50
20-50	567.65	61.30	61.30
40-70	342.09	36.90	36.90
60-80	94.02	10.10	10.10
70-80	24.99	2.70	2.70
80-90	3.06	0.30	0.30
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	926.71	100.00	100.00

Total Luminaire Efficiency = 100.00%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	39.13
10-20	114.57
20-30	180.31
30-40	222.54
40-50	164.80
50-60	108.26
60-70	69.03
70-80	24.99
80-90	3.06
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

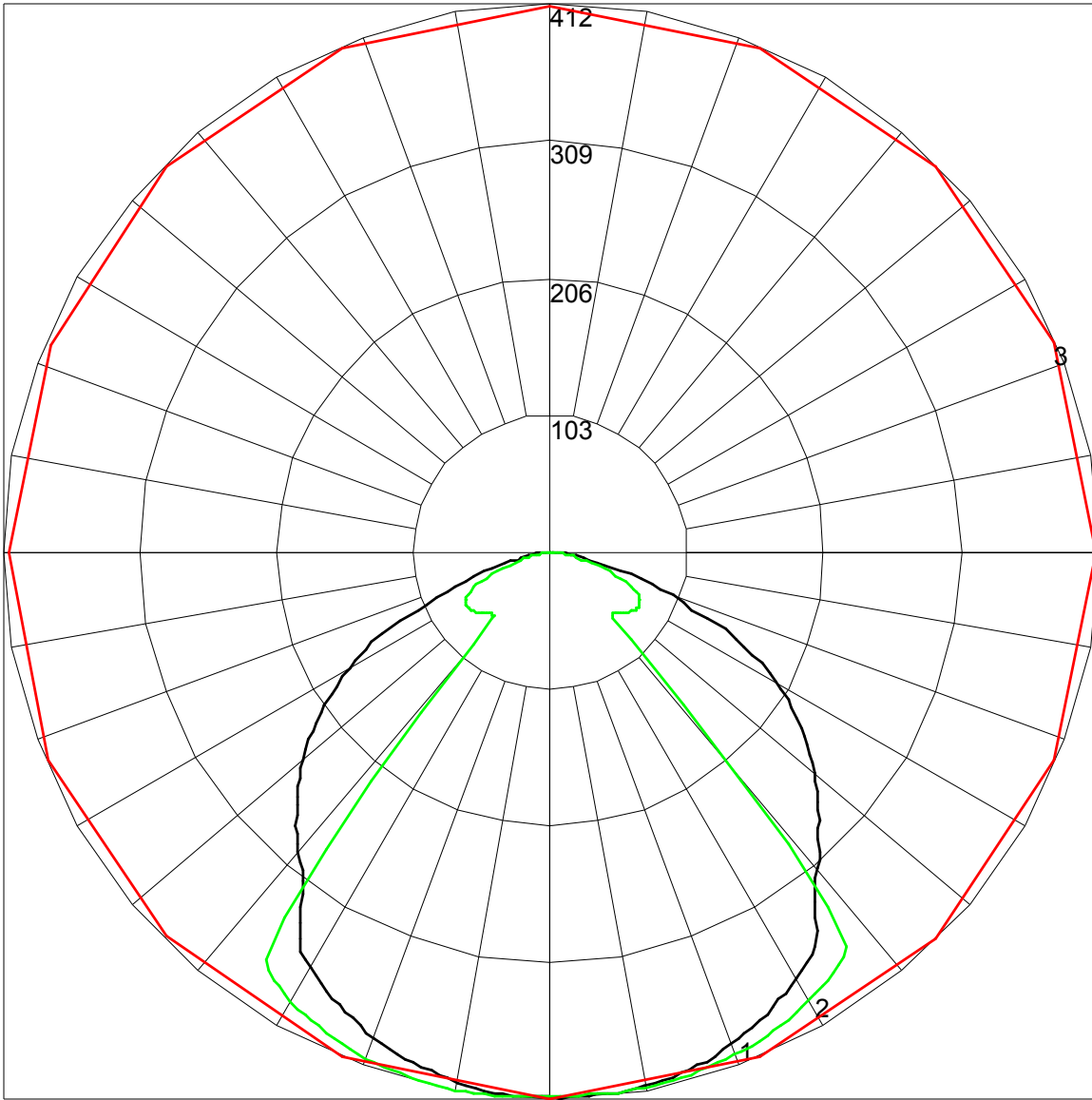
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88	
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	76	
3	95	85	78	73	92	84	77	72	81	76	71	78	74	70	76	72	69	67	
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58	
5	81	70	62	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52	
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	46	
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41	
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37	
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	40	35	34	
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	36	32	31	

POLAR GRAPH



Maximum Candela = 411.9 Located At Horizontal Angle = 292.5, 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.)