

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P334006

Luminaire Tested: **S123DP-S560D930-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334006
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DP-S560D930-4F0-1E-UDD-F
Description: DEFINE 3 DIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
PENDANT/SURFACE/WALL MOUNT, 560 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1771.9 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Direct

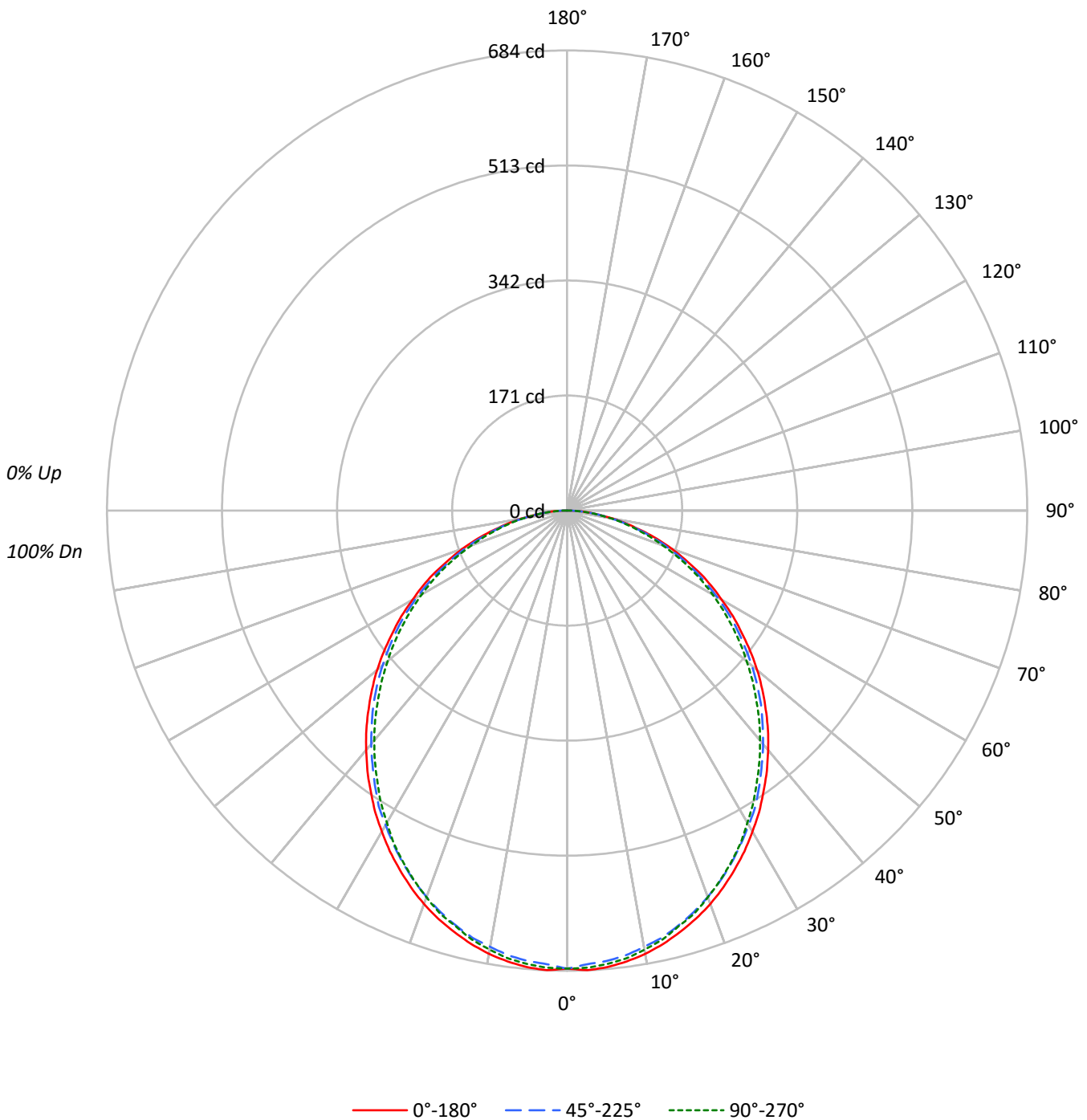
Input Watts (W): 18.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	104	100	96	106	102	98	95	98	94	92		94	91	89		90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76		82	78	74		79	76	72	70
3	91	80	72	66	88	79	71	65	76	69	64		73	67	63		70	66	62	59
4	83	71	62	56	81	70	62	55	67	60	55		65	59	54		63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47		58	52	47		57	51	46	44
6	71	57	49	42	69	56	48	42	55	47	42		53	46	41		51	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37		48	42	37		47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33		44	38	33		43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30		41	34	30		40	34	30	28
10	54	40	33	27	52	40	32	27	39	32	27		38	32	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7328	7328	7328
5°	7363	7261	7312
10°	7313	7198	7243
15°	7228	7117	7130
20°	7128	7001	7007
25°	6994	6862	6848
30°	6847	6708	6657
35°	6692	6547	6461
40°	6531	6367	6268
45°	6354	6202	6051
50°	6176	6000	5833
55°	5943	5789	5613
60°	5709	5546	5369
65°	5501	5277	5114
70°	5196	4976	4752
75°	4749	4579	4383
80°	4283	4104	4066
85°	3754	3619	3470



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.2	3.6
10°-20°	181.2	10.2
20°-30°	267.7	15.1
30°-40°	312.6	17.6
40°-50°	314.3	17.7
50°-60°	276.1	15.6
60°-70°	205.6	11.6
70°-80°	117.0	6.6
80°-90°	33.3	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	513.1	29.0
0°-40°	825.7	46.6
0°-60°	1416.0	79.9
0°-90°	1771.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1771.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	681	681	681	681	681	
5°	681	678	672	678	677	65
15°	649	646	639	643	640	183
25°	589	585	578	578	577	271
35°	509	506	498	495	492	319
45°	417	415	407	400	398	322
55°	317	316	308	302	299	284
65°	216	213	207	203	201	213
75°	114	112	110	107	105	122
85°	30	29	29	28	28	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	680.8	680.8	680.8	680.8	680.8
2.5°	683.8	681.4	675.0	680.8	680.2
5°	681.4	678.5	672.0	677.9	676.7
7.5°	676.1	673.2	666.8	672.0	671.5
10°	669.1	666.2	658.6	663.8	662.7
12.5°	659.8	657.4	650.4	653.9	653.3
15°	648.6	646.3	638.7	643.4	639.8
17.5°	636.3	633.4	625.8	629.3	628.1
20°	622.3	618.8	611.2	613.5	611.7
22.5°	606.5	603.0	595.4	597.1	594.8
25°	588.9	585.4	577.8	578.4	576.6
27.5°	570.8	567.3	559.1	559.6	557.9
30°	550.9	547.9	539.7	539.7	535.6
32.5°	531.0	526.9	521.0	516.9	515.2
35°	509.3	505.8	498.2	494.7	491.7
37.5°	487.6	483.0	475.3	471.3	469.5
40°	464.8	461.3	453.1	448.4	446.1
42.5°	442.0	437.9	429.7	425.0	422.7
45°	417.4	415.1	407.4	400.4	397.5
47.5°	393.4	389.9	382.9	375.8	373.5
50°	368.8	365.9	358.3	351.8	348.3
52.5°	343.0	341.3	333.1	327.8	324.3
55°	316.7	316.1	308.5	302.1	299.1
57.5°	292.1	289.8	283.9	278.1	274.6
60°	265.2	264.6	257.6	252.3	249.4
62.5°	241.2	239.4	232.4	227.1	225.4
65°	216.0	213.1	207.2	202.6	200.8
67.5°	189.1	186.7	182.1	178.0	175.6
70°	165.1	161.6	158.1	154.0	151.0
72.5°	139.9	137.6	133.5	130.0	128.8
75°	114.2	111.8	110.1	107.1	105.4
77.5°	91.3	90.2	87.8	85.5	85.5
80°	69.1	67.3	66.2	65.6	65.6
82.5°	47.4	47.4	47.4	46.2	45.7
85°	30.4	29.3	29.3	28.1	28.1
87.5°	15.2	13.5	12.9	12.3	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)