

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: P242443

Luminaire Tested: **S123DR-S775D930-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242443
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: S123DR-S775D930-X4F0-XX-UDD-F-W
Description: DEFINE 3 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2467.7 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular (W 0.23' x L: 3.88' x H: 0')
CIE Type: Direct

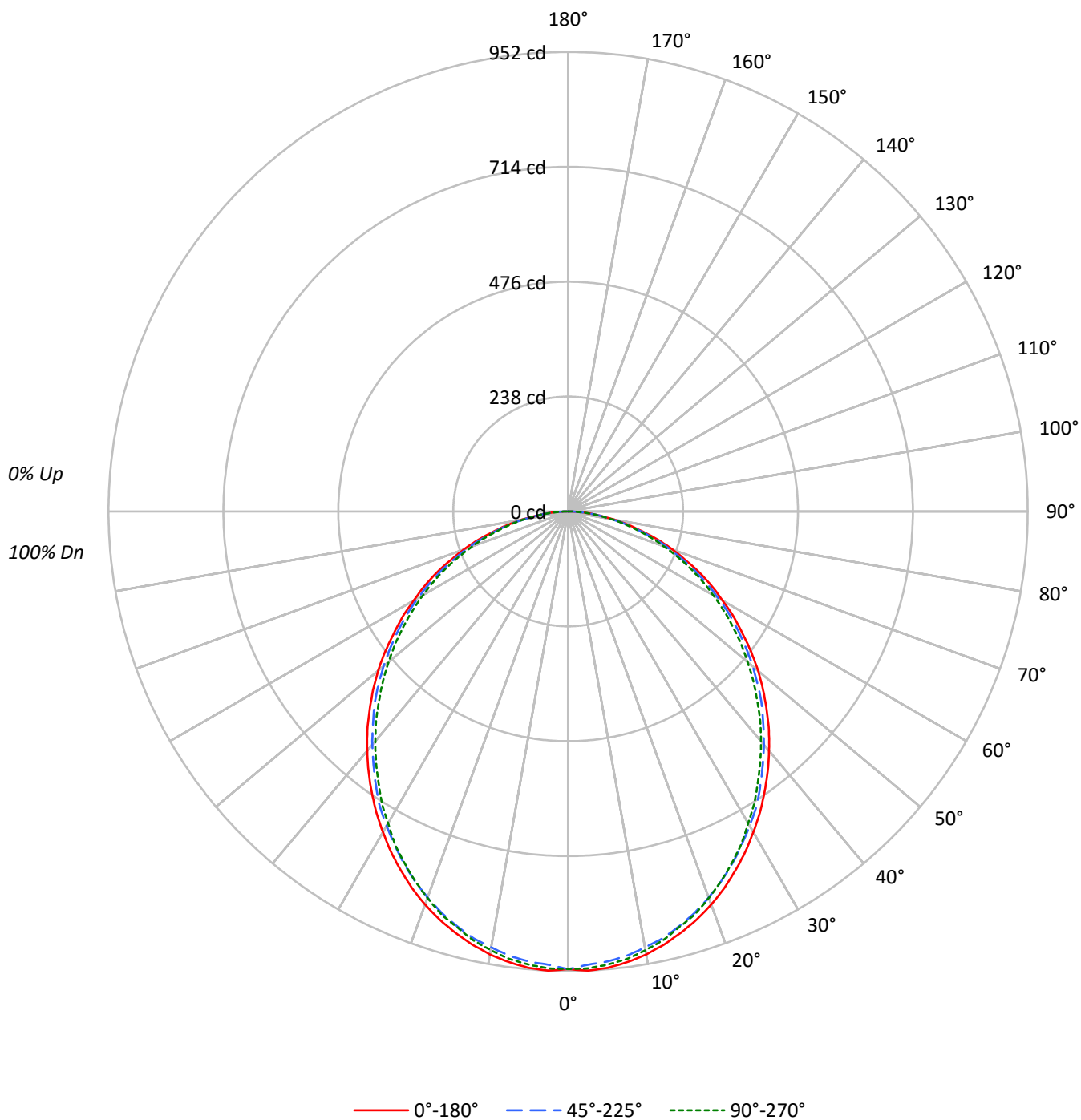
Input Watts (W): 26.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11493	11493	11493
5°	11547	11389	11468
10°	11470	11289	11359
15°	11337	11162	11182
20°	11180	10980	10990
25°	10970	10762	10741
30°	10738	10521	10441
35°	10496	10266	10135
40°	10242	9984	9831
45°	9965	9726	9490
50°	9685	9410	9148
55°	9322	9081	8804
60°	8953	8696	8419
65°	8627	8277	8019
70°	8148	7800	7453
75°	7446	7179	6875
80°	6715	6429	6373
85°	5897	5674	5438

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.4	3.6
10°-20°	252.4	10.2
20°-30°	372.8	15.1
30°-40°	435.4	17.6
40°-50°	437.7	17.7
50°-60°	384.5	15.6
60°-70°	286.3	11.6
70°-80°	163.0	6.6
80°-90°	46.3	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°	714.6	29.0
0°-40°	1149.9	46.6
0°-60°	1972.1	79.9
0°-90°	2467.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2467.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	948	948	948	948	948	
5°	949	945	936	944	942	90
15°	903	900	890	896	891	255
25°	820	815	805	806	803	378
35°	709	704	694	689	685	444
45°	581	578	567	558	554	449
55°	441	440	430	421	417	395
65°	301	297	289	282	280	297
75°	159	156	153	149	147	170
85°	42	41	41	39	39	48
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	948.2	948.2	948.2	948.2	948.2
2.5°	952.3	949.0	940.0	948.2	947.4
5°	949.0	944.9	936.0	944.1	942.5
7.5°	941.7	937.6	928.6	936.0	935.1
10°	931.9	927.8	917.2	924.5	922.9
12.5°	918.8	915.6	905.8	910.7	909.9
15°	903.4	900.1	889.5	896.0	891.1
17.5°	886.2	882.2	871.6	876.4	874.8
20°	866.7	861.8	851.2	854.4	852.0
22.5°	844.6	839.8	829.2	831.6	828.3
25°	820.2	815.3	804.7	805.5	803.1
27.5°	794.9	790.0	778.6	779.4	777.0
30°	767.2	763.1	751.7	751.7	746.0
32.5°	739.5	733.8	725.6	719.9	717.5
35°	709.3	704.4	693.8	688.9	684.9
37.5°	679.1	672.6	662.0	656.3	653.9
40°	647.3	642.5	631.0	624.5	621.3
42.5°	615.6	609.8	598.4	591.9	588.6
45°	581.3	578.0	567.4	557.7	553.6
47.5°	547.9	543.0	533.2	523.4	520.2
50°	513.6	509.6	499.0	490.0	485.1
52.5°	477.8	475.3	463.9	456.6	451.7
55°	441.1	440.3	429.7	420.7	416.6
57.5°	406.8	403.6	395.4	387.3	382.4
60°	369.3	368.5	358.7	351.4	347.3
62.5°	335.9	333.5	323.7	316.3	313.9
65°	300.8	296.8	288.6	282.1	279.6
67.5°	263.3	260.1	253.6	247.9	244.6
70°	229.9	225.0	220.1	214.4	210.3
72.5°	194.9	191.6	185.9	181.0	179.4
75°	159.0	155.7	153.3	149.2	146.8
77.5°	127.2	125.6	122.3	119.0	119.0
80°	96.2	93.8	92.1	91.3	91.3
82.5°	66.0	66.0	66.0	64.4	63.6
85°	42.4	40.8	40.8	39.1	39.1
87.5°	21.2	18.8	17.9	17.1	17.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)