

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: P243465

Luminaire Tested: **S124DR-H575D835-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243465
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-84)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DR-H575D835-X4F0-XX-UDD-F-W
Description: DEFINE 4 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2259.1 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.31' x L: 3.88' x H: 0')
CIE Type: Direct

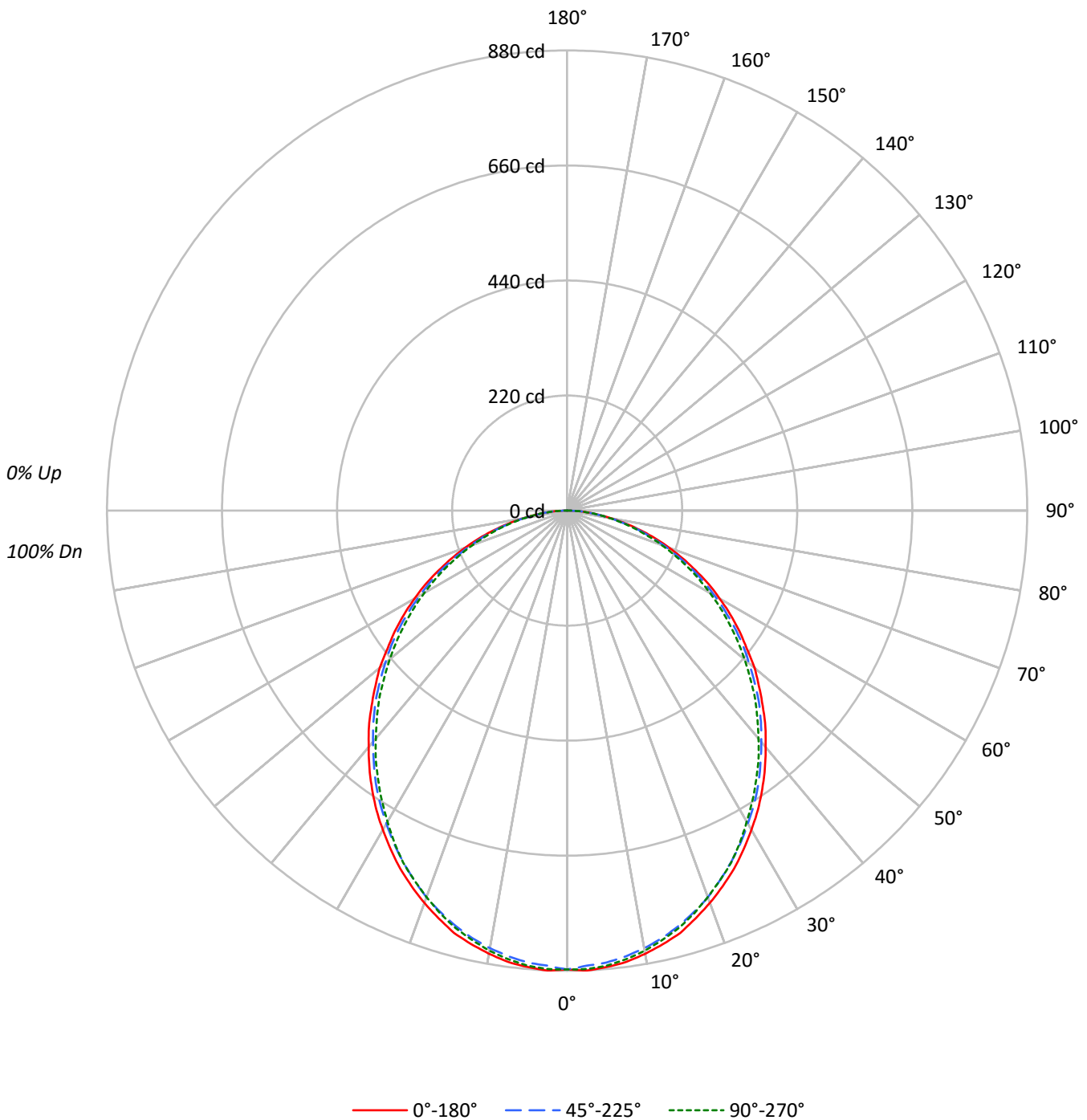
Input Watts (W): 17.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	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	73	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	48	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7801	7801	7801
5°	7817	7741	7792
10°	7766	7669	7715
15°	7694	7570	7602
20°	7551	7444	7437
25°	7410	7276	7283
30°	7234	7094	7050
35°	7059	6919	6834
40°	6852	6703	6604
45°	6651	6517	6391
50°	6468	6280	6122
55°	6230	6064	5877
60°	5991	5788	5611
65°	5706	5513	5332
70°	5401	5159	4993
75°	4976	4781	4636
80°	4387	4315	4203
85°	3855	3855	3784



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.7	3.7
10°-20°	233.3	10.3
20°-30°	343.5	15.2
30°-40°	399.7	17.7
40°-50°	399.9	17.7
50°-60°	349.7	15.5
60°-70°	259.7	11.5
70°-80°	148.0	6.6
80°-90°	42.6	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°	659.5	29.2
0°-40°	1059.2	46.9
0°-60°	1808.8	80.1
0°-90°	2259.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2259.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	878	878	878	878	878	
5°	876	875	868	874	873	83
15°	836	832	823	828	826	235
25°	756	752	742	744	743	348
35°	650	645	638	632	630	407
45°	529	527	518	510	508	409
55°	402	399	391	383	379	359
65°	271	269	262	256	254	269
75°	145	142	139	136	135	154
85°	38	37	38	36	37	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	877.6	877.6	877.6	877.6	877.6
2.5°	880.4	878.3	871.1	878.3	877.6
5°	876.1	874.7	867.6	874.0	873.3
7.5°	870.4	867.6	859.7	866.1	865.4
10°	860.4	858.3	849.7	856.1	854.7
12.5°	849.0	846.8	837.6	842.6	841.1
15°	836.1	831.9	822.6	827.6	826.1
17.5°	817.6	814.7	805.4	809.7	807.6
20°	798.3	794.7	786.9	787.6	786.2
22.5°	777.6	774.0	764.7	767.6	764.7
25°	755.5	751.9	741.9	744.0	742.6
27.5°	730.5	726.9	717.6	718.3	715.5
30°	704.8	700.5	691.2	690.5	686.9
32.5°	679.0	674.8	665.5	662.6	659.1
35°	650.5	644.8	637.6	631.9	629.8
37.5°	621.2	618.4	607.6	604.1	601.2
40°	590.5	587.7	577.7	572.7	569.1
42.5°	561.2	557.7	548.4	541.2	538.4
45°	529.1	527.0	518.4	510.5	508.4
47.5°	497.7	497.0	486.3	478.4	474.8
50°	467.7	463.4	454.1	447.0	442.7
52.5°	432.7	432.0	424.1	414.9	411.3
55°	402.0	399.1	391.3	382.7	379.2
57.5°	369.9	368.4	358.4	351.3	347.7
60°	337.0	334.2	325.6	319.2	315.6
62.5°	305.6	302.0	294.2	287.8	284.2
65°	271.3	269.2	262.1	256.3	253.5
67.5°	239.2	236.3	229.2	224.2	221.4
70°	207.8	203.5	198.5	194.2	192.1
72.5°	176.4	172.8	168.5	165.7	162.8
75°	144.9	142.1	139.2	136.4	135.0
77.5°	115.0	112.1	110.7	110.0	108.5
80°	85.7	84.3	84.3	83.5	82.1
82.5°	60.7	59.3	59.3	59.3	58.6
85°	37.8	37.1	37.8	36.4	37.1
87.5°	17.9	17.9	18.6	17.9	18.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)