

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: P243632

Luminaire Tested: **S125DR-H610D830-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243632
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-51)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DR-H610D830-X4F0-XX-UDD-F-W
Description: DEFINE 5 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2210.8 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.39' x L: 3.88' x H: 0')
CIE Type: Direct

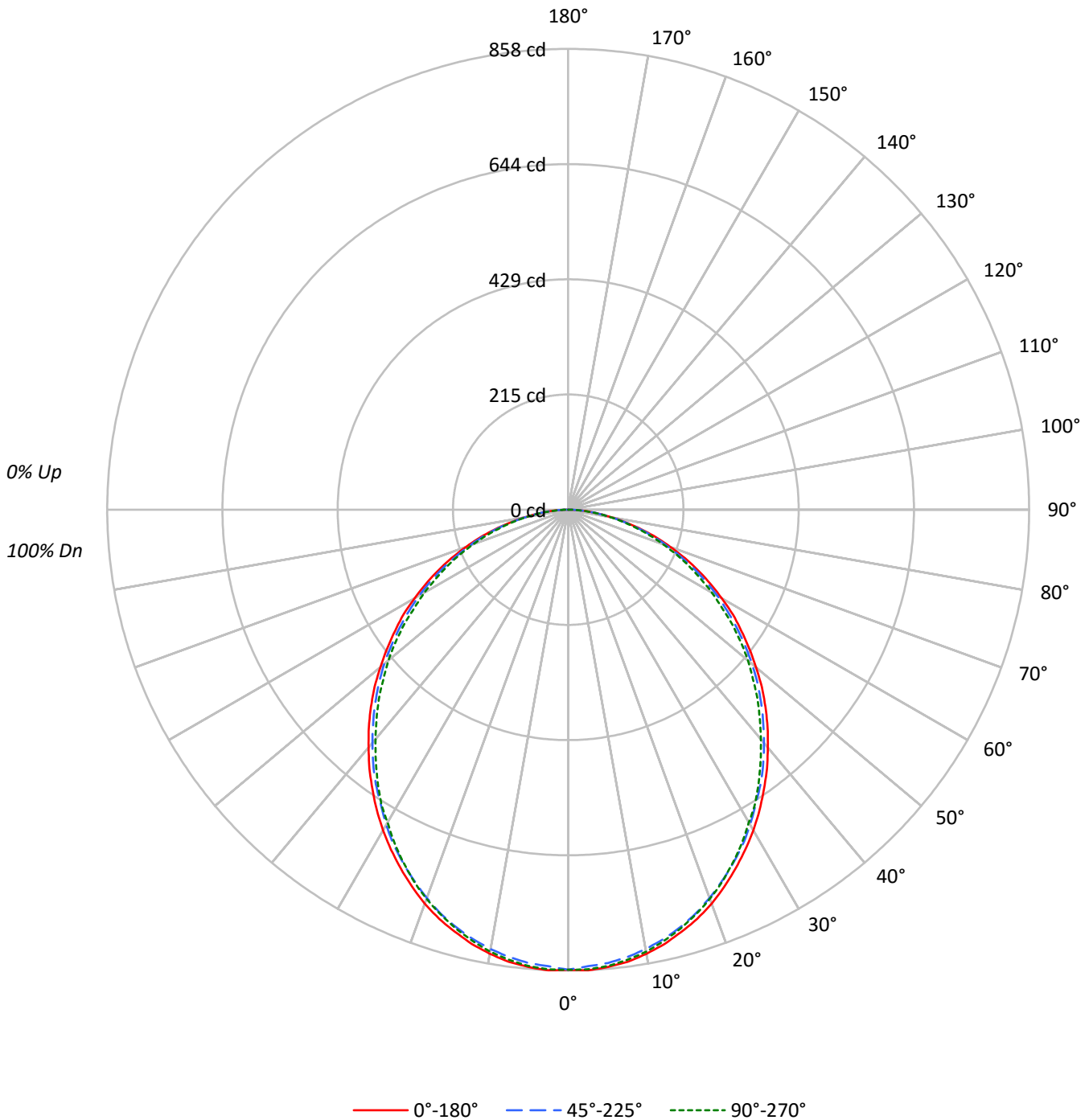
Input Watts (W): 17.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	49	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°	6087	6087	6087
5°	6097	6044	6084
10°	6059	5995	6031
15°	5987	5923	5942
20°	5903	5817	5831
25°	5780	5696	5686
30°	5657	5559	5518
35°	5512	5414	5365
40°	5364	5259	5177
45°	5217	5103	5009
50°	5044	4940	4829
55°	4875	4742	4617
60°	4689	4556	4395
65°	4470	4312	4164
70°	4191	4036	3905
75°	3866	3746	3573
80°	3369	3344	3266
85°	2919	2919	2764



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.8	3.7
10°-20°	228.0	10.3
20°-30°	336.1	15.2
30°-40°	391.4	17.7
40°-50°	392.2	17.7
50°-60°	342.9	15.5
60°-70°	254.5	11.5
70°-80°	144.3	6.5
80°-90°	40.5	1.8
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°	644.9	29.2
0°-40°	1036.4	46.9
0°-60°	1771.5	80.1
0°-90°	2210.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2210.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	856	856	856	856	856	
5°	855	853	847	853	853	81
15°	814	812	805	809	808	230
25°	737	735	726	728	725	340
35°	635	632	624	620	618	397
45°	519	518	508	500	498	400
55°	393	393	383	374	373	352
65°	266	264	256	251	248	264
75°	141	138	136	134	130	149
85°	36	36	36	35	34	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	856.5	856.5	856.5	856.5	856.5
2.5°	858.4	857.1	850.8	857.1	856.5
5°	854.6	853.3	847.1	853.3	852.7
7.5°	848.9	847.1	840.1	846.4	845.2
10°	839.5	838.3	830.7	835.7	835.7
12.5°	828.2	826.3	818.8	823.2	822.5
15°	813.7	812.5	805.0	809.3	807.5
17.5°	798.7	795.5	788.6	792.4	789.9
20°	780.4	777.9	769.1	772.3	771.0
22.5°	759.7	756.6	748.4	750.3	749.7
25°	737.1	734.6	726.4	728.3	725.1
27.5°	713.8	710.7	703.2	703.2	700.0
30°	689.3	686.2	677.4	677.4	672.4
32.5°	662.9	660.4	649.7	649.1	647.9
35°	635.3	631.5	624.0	620.2	618.3
37.5°	607.6	604.5	596.3	591.3	588.2
40°	578.1	576.2	566.8	562.4	558.0
42.5°	549.2	547.3	537.3	529.7	527.8
45°	519.0	517.8	507.7	500.2	498.3
47.5°	488.9	487.6	477.6	469.4	466.3
50°	456.2	456.2	446.8	438.6	436.7
52.5°	424.8	424.2	414.7	406.6	404.7
55°	393.4	392.7	382.7	374.5	372.6
57.5°	363.8	360.1	351.3	345.0	338.7
60°	329.9	328.0	320.5	312.3	309.2
62.5°	298.5	296.0	288.4	281.5	277.1
65°	265.8	263.9	256.4	250.7	247.6
67.5°	235.0	232.5	225.0	220.6	218.0
70°	201.7	199.8	194.2	188.5	187.9
72.5°	172.2	169.7	166.5	161.5	159.0
75°	140.8	138.2	136.4	133.8	130.1
77.5°	110.6	109.3	108.1	106.2	104.3
80°	82.3	82.3	81.7	80.4	79.8
82.5°	58.4	59.1	57.2	55.9	55.9
85°	35.8	35.8	35.8	34.6	33.9
87.5°	17.6	15.7	15.7	14.5	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)