

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: P243641

Luminaire Tested: **S125DR-H610D840-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243641
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-H610D840-X4F0-XX-UDD-F-W
Description: DEFINE 5 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2368.7 lumens
Efficiency: N/A
Efficacy: 137.7 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

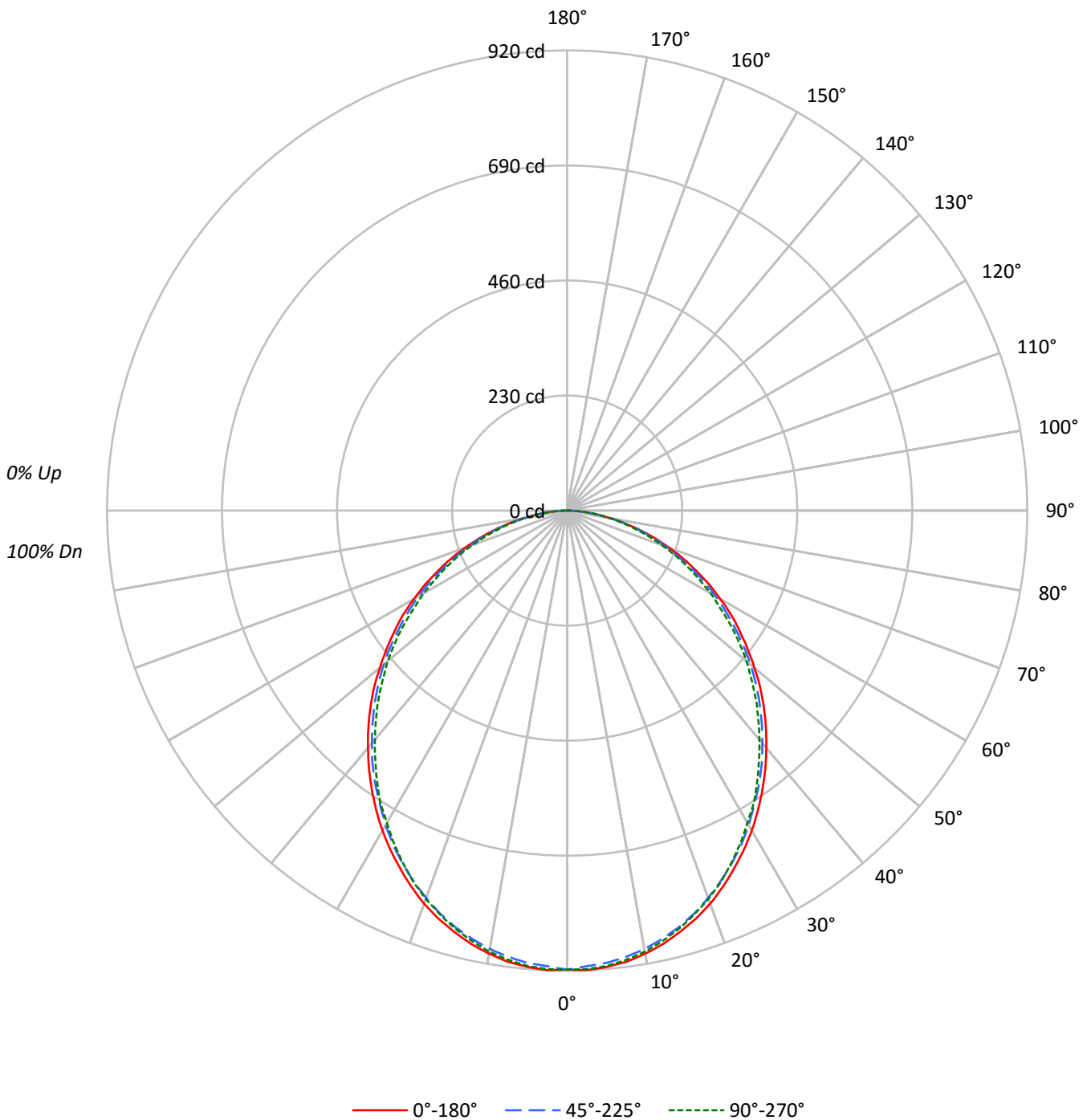
Input Watts (W): 17.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6522	6522	6522
5°	6532	6475	6518
10°	6492	6423	6462
15°	6415	6346	6365
20°	6325	6233	6248
25°	6193	6103	6093
30°	6062	5957	5912
35°	5906	5800	5748
40°	5747	5635	5547
45°	5590	5468	5366
50°	5405	5293	5174
55°	5223	5080	4947
60°	5025	4881	4708
65°	4790	4620	4462
70°	4491	4322	4183
75°	4141	4012	3828
80°	3610	3581	3499
85°	3131	3131	2968



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.6	3.7
10°-20°	244.3	10.3
20°-30°	360.1	15.2
30°-40°	419.4	17.7
40°-50°	420.3	17.7
50°-60°	367.4	15.5
60°-70°	272.7	11.5
70°-80°	154.6	6.5
80°-90°	43.4	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°	691.0	29.2
0°-40°	1110.4	46.9
0°-60°	1898.1	80.1
0°-90°	2368.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2368.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	918	918	918	918	918	
5°	916	914	908	914	914	87
15°	872	870	862	867	865	246
25°	790	787	778	780	777	364
35°	681	677	668	664	662	426
45°	556	555	544	536	534	429
55°	422	421	410	401	399	377
65°	285	283	275	269	265	282
75°	151	148	146	143	139	160
85°	38	38	38	37	36	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	917.7	917.7	917.7	917.7	917.7
2.5°	919.7	918.3	911.6	918.3	917.7
5°	915.6	914.3	907.6	914.3	913.6
7.5°	909.6	907.6	900.1	906.9	905.5
10°	899.5	898.1	890.0	895.4	895.4
12.5°	887.4	885.3	877.3	882.0	881.3
15°	871.9	870.5	862.4	867.2	865.1
17.5°	855.7	852.3	844.9	849.0	846.3
20°	836.2	833.5	824.1	827.4	826.1
22.5°	814.0	810.6	801.9	803.9	803.2
25°	789.7	787.0	778.3	780.3	776.9
27.5°	764.8	761.5	753.4	753.4	750.0
30°	738.6	735.2	725.8	725.8	720.4
32.5°	710.3	707.6	696.1	695.5	694.1
35°	680.7	676.6	668.5	664.5	662.5
37.5°	651.0	647.7	638.9	633.5	630.2
40°	619.4	617.4	607.3	602.6	597.9
42.5°	588.4	586.4	575.6	567.6	565.5
45°	556.1	554.8	544.0	535.9	533.9
47.5°	523.8	522.4	511.7	502.9	499.6
50°	488.8	488.8	478.7	469.9	467.9
52.5°	455.1	454.4	444.4	435.6	433.6
55°	421.5	420.8	410.0	401.3	399.2
57.5°	389.8	385.8	376.4	369.6	362.9
60°	353.5	351.4	343.4	334.6	331.2
62.5°	319.8	317.1	309.0	301.6	296.9
65°	284.8	282.8	274.7	268.6	265.3
67.5°	251.8	249.1	241.0	236.3	233.6
70°	216.1	214.1	208.0	202.0	201.3
72.5°	184.5	181.8	178.4	173.0	170.3
75°	150.8	148.1	146.1	143.4	139.4
77.5°	118.5	117.1	115.8	113.8	111.8
80°	88.2	88.2	87.5	86.2	85.5
82.5°	62.6	63.3	61.3	59.9	59.9
85°	38.4	38.4	38.4	37.0	36.4
87.5°	18.9	16.8	16.8	15.5	15.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)