

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: P242781

Luminaire Tested: **S125DR-S610D840-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242781
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DR-S610D840-X4F0-XX-UDD-F-W
Description: DEFINE 5 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2385.5 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular (W 0.39' x L: 3.88' x H: 0')
CIE Type: Direct

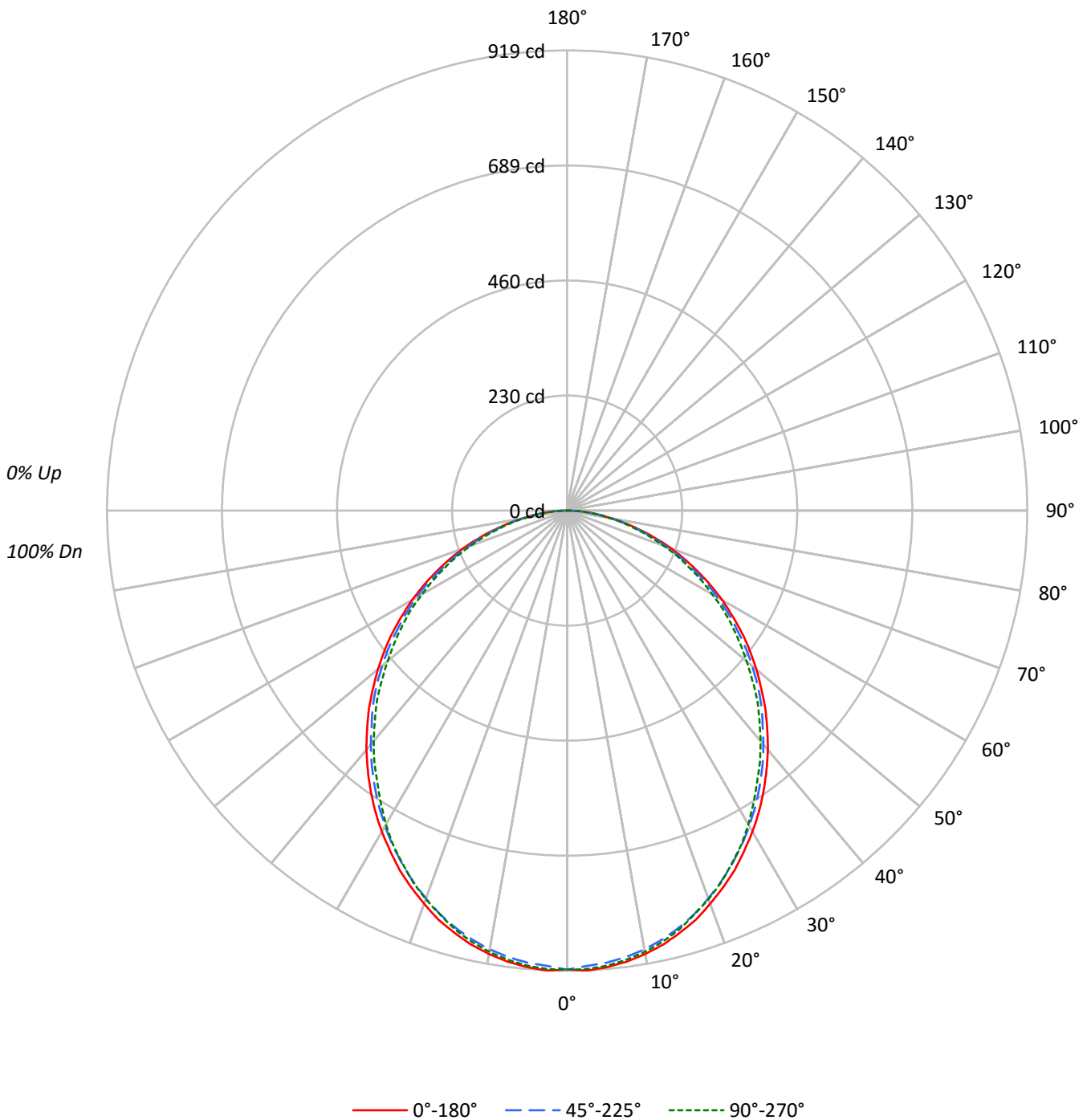
Input Watts (W): 18.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	6514	6514	6514
5°	6529	6467	6508
10°	6489	6421	6458
15°	6418	6344	6371
20°	6318	6235	6247
25°	6209	6107	6101
30°	6076	5969	5939
35°	5933	5819	5738
40°	5786	5658	5577
45°	5627	5510	5401
50°	5452	5332	5171
55°	5284	5130	4986
60°	5082	4927	4752
65°	4842	4682	4524
70°	4611	4399	4250
75°	4201	4061	3921
80°	3741	3680	3590
85°	3254	3311	3131



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.5	3.6
10°-20°	244.3	10.2
20°-30°	360.7	15.1
30°-40°	420.8	17.6
40°-50°	422.6	17.7
50°-60°	371.0	15.6
60°-70°	276.3	11.6
70°-80°	157.8	6.6
80°-90°	45.6	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°	691.4	29.0
0°-40°	1112.2	46.6
0°-60°	1905.8	79.9
0°-90°	2385.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2385.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	916	916	916	916	916	
5°	915	914	906	913	912	87
15°	872	870	862	866	866	246
25°	792	788	779	780	778	364
35°	684	681	671	667	661	428
45°	560	557	548	540	537	431
55°	426	424	414	408	402	381
65°	288	286	278	272	269	286
75°	153	152	148	146	143	163
85°	40	41	41	40	38	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	916.5	916.5	916.5	916.5	916.5
2.5°	919.4	917.3	910.0	917.3	916.5
5°	915.1	913.6	906.4	912.9	912.2
7.5°	908.6	907.1	899.1	905.7	904.9
10°	899.1	897.7	889.7	895.5	894.8
12.5°	887.5	884.6	877.4	881.7	881.7
15°	872.3	870.1	862.2	865.8	865.8
17.5°	856.4	852.7	844.8	849.1	845.5
20°	835.3	833.9	824.4	829.5	825.9
22.5°	814.3	811.4	802.7	805.6	803.4
25°	791.8	788.2	778.8	780.2	778.0
27.5°	765.7	763.5	754.1	754.8	752.7
30°	740.3	738.2	727.3	725.8	723.7
32.5°	712.8	709.2	699.7	696.8	692.5
35°	683.8	680.9	670.7	667.1	661.3
37.5°	654.0	650.4	641.0	635.9	632.3
40°	623.6	620.0	609.8	603.3	601.1
42.5°	591.0	588.1	577.9	572.1	568.5
45°	559.8	556.9	548.2	539.5	537.3
47.5°	525.7	526.4	515.6	506.9	501.8
50°	493.1	490.9	482.2	472.8	467.7
52.5°	459.7	458.3	448.8	440.9	435.1
55°	426.4	424.2	414.0	407.5	402.4
57.5°	390.8	390.1	381.4	372.7	370.5
60°	357.5	354.6	346.6	339.4	334.3
62.5°	322.7	320.5	314.0	306.0	302.4
65°	287.9	286.4	278.4	271.9	269.0
67.5°	253.8	250.9	245.1	239.3	237.8
70°	221.9	218.3	211.7	207.4	204.5
72.5°	187.1	184.9	181.3	176.2	173.3
75°	153.0	151.5	147.9	145.7	142.8
77.5°	121.1	120.4	118.2	116.7	114.6
80°	91.4	91.4	89.9	89.2	87.7
82.5°	65.3	63.8	63.8	62.4	62.4
85°	39.9	40.6	40.6	39.9	38.4
87.5°	19.6	19.6	18.9	18.9	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)