

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: P242777

Luminaire Tested: **S125DR-S610D835-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242777
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-S610D835-X4F0-XX-UDD-F-W
Description: DEFINE 5 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2362.2 lumens
Efficiency: N/A
Efficacy: 125.7 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

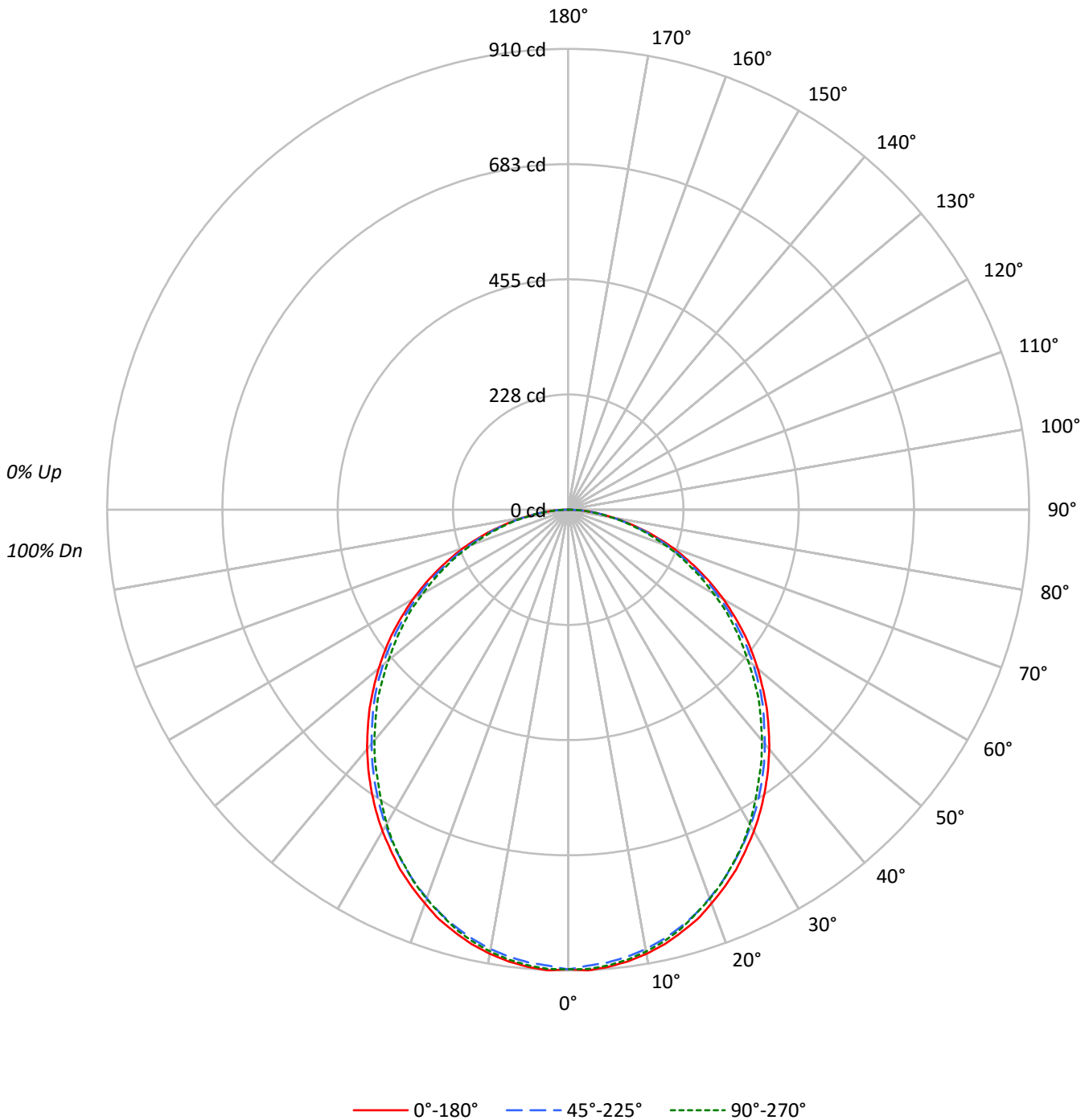
Input Watts (W): 18.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	6451	6451	6451
5°	6465	6403	6445
10°	6426	6358	6394
15°	6356	6282	6308
20°	6257	6175	6185
25°	6149	6048	6042
30°	6016	5911	5881
35°	5875	5763	5681
40°	5729	5603	5522
45°	5571	5456	5348
50°	5399	5280	5121
55°	5232	5080	4938
60°	5032	4878	4705
65°	4795	4637	4480
70°	4565	4358	4208
75°	4160	4023	3886
80°	3704	3643	3557
85°	3221	3278	3107



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.6	3.6
10°-20°	241.9	10.2
20°-30°	357.1	15.1
30°-40°	416.7	17.6
40°-50°	418.5	17.7
50°-60°	367.4	15.6
60°-70°	273.6	11.6
70°-80°	156.3	6.6
80°-90°	45.1	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°	684.7	29.0
0°-40°	1101.4	46.6
0°-60°	1887.2	79.9
0°-90°	2362.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2362.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	908	908	908	908	908	
5°	906	905	898	904	903	86
15°	864	862	854	857	857	244
25°	784	780	771	773	770	361
35°	677	674	664	661	655	424
45°	554	551	543	534	532	427
55°	422	420	410	404	398	377
65°	285	284	276	269	266	283
75°	152	150	146	144	142	161
85°	40	40	40	40	38	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	907.6	907.6	907.6	907.6	907.6
2.5°	910.5	908.3	901.1	908.3	907.6
5°	906.1	904.7	897.5	904.0	903.3
7.5°	899.7	898.3	890.4	896.8	896.1
10°	890.4	888.9	881.0	886.8	886.0
12.5°	878.9	876.0	868.8	873.1	873.1
15°	863.8	861.6	853.7	857.3	857.3
17.5°	848.0	844.4	836.5	840.8	837.2
20°	827.2	825.7	816.4	821.4	817.8
22.5°	806.3	803.5	794.9	797.7	795.6
25°	784.1	780.5	771.2	772.6	770.4
27.5°	758.2	756.1	746.7	747.5	745.3
30°	733.1	731.0	720.2	718.7	716.6
32.5°	705.8	702.2	692.9	690.0	685.7
35°	677.1	674.2	664.2	660.6	654.8
37.5°	647.7	644.1	634.7	629.7	626.1
40°	617.5	613.9	603.9	597.4	595.2
42.5°	585.2	582.3	572.3	566.5	562.9
45°	554.3	551.4	542.8	534.2	532.1
47.5°	520.6	521.3	510.5	501.9	496.9
50°	488.3	486.1	477.5	468.2	463.1
52.5°	455.2	453.8	444.5	436.6	430.8
55°	422.2	420.0	410.0	403.5	398.5
57.5°	387.0	386.3	377.7	369.1	366.9
60°	354.0	351.1	343.2	336.0	331.0
62.5°	319.5	317.4	310.9	303.0	299.4
65°	285.1	283.6	275.7	269.3	266.4
67.5°	251.3	248.4	242.7	236.9	235.5
70°	219.7	216.1	209.7	205.4	202.5
72.5°	185.3	183.1	179.5	174.5	171.6
75°	151.5	150.1	146.5	144.3	141.5
77.5°	119.9	119.2	117.0	115.6	113.4
80°	90.5	90.5	89.0	88.3	86.9
82.5°	64.6	63.2	63.2	61.8	61.8
85°	39.5	40.2	40.2	39.5	38.1
87.5°	19.4	19.4	18.7	18.7	17.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)