

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: P242879

Luminaire Tested: **S125RDR-S375D835-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P242879  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S125RDR-S375D835-X4F0-XX-UDD-F-W  
Description: DEFINE 5 REGRESSED 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: 1365.9 lumens  
Efficiency: N/A  
Efficacy: 117.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 3.88' x H: 0')  
CIE Type: Direct

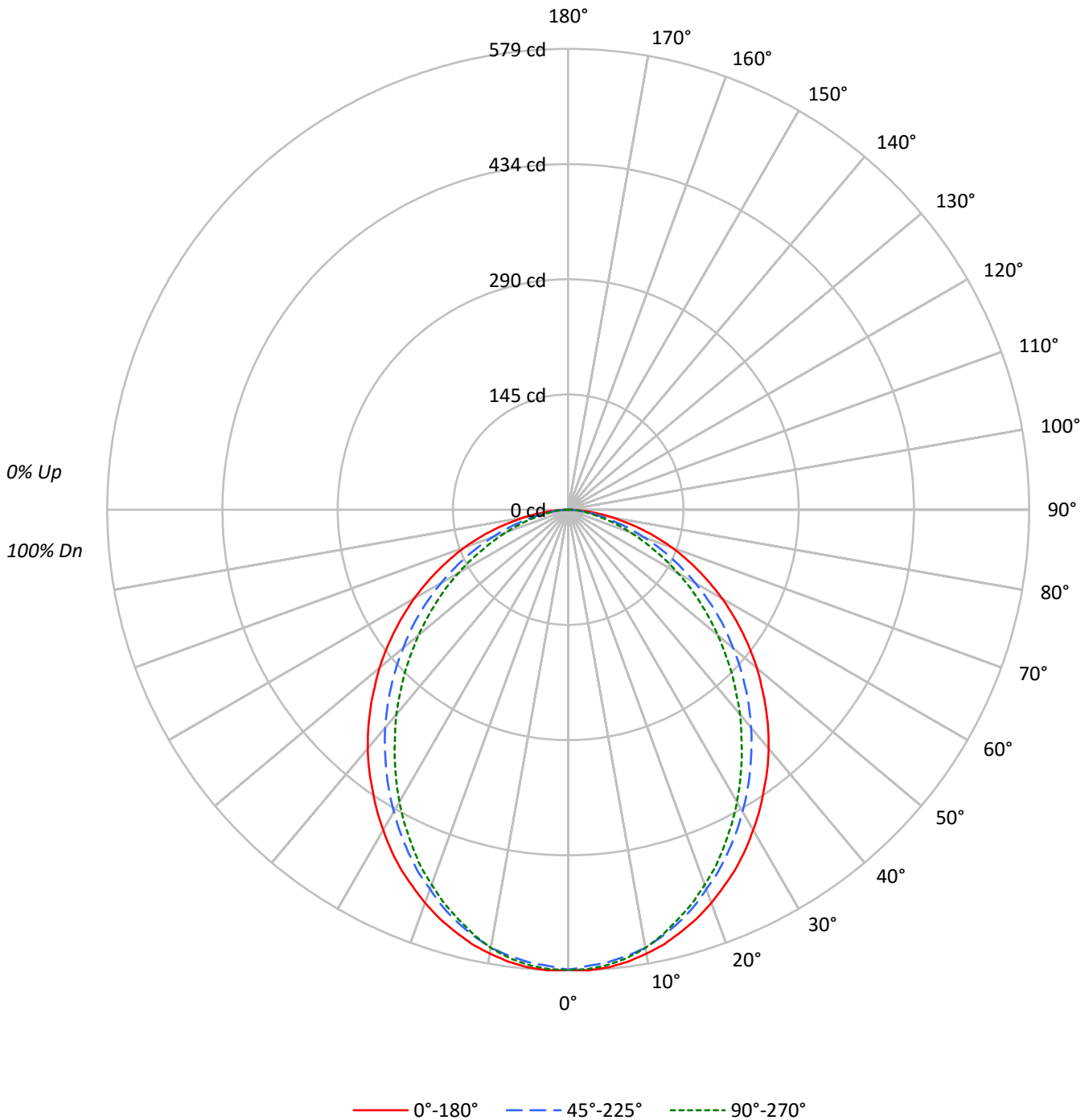
Input Watts (W): 11.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	98	90	84	79	87	82	78	84	79	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33
9	58	45	37	32	57	45	37	32	44	37	32	42	36	31	41	36	31	29
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4109	4109	4109
5°	4118	4072	4097
10°	4087	4034	4034
15°	4038	3951	3920
20°	3976	3838	3791
25°	3904	3725	3643
30°	3813	3594	3480
35°	3720	3458	3296
40°	3634	3318	3116
45°	3528	3160	2919
50°	3423	2989	2713
55°	3300	2824	2494
60°	3178	2625	2259
65°	3032	2393	1989
70°	2868	2105	1714
75°	2639	1774	1428
80°	2325	1396	1199
85°	1957	1142	1068



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.4	4.0
10°-20°	152.0	11.1
20°-30°	220.5	16.1
30°-40°	251.2	18.4
40°-50°	244.8	17.9
50°-60°	206.0	15.1
60°-70°	144.4	10.6
70°-80°	74.0	5.4
80°-90°	18.5	1.4
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°	426.9	31.3
0°-40°	678.1	49.6
0°-60°	1129.0	82.7
0°-90°	1365.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1365.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	578	578	578	578	578	
5°	577	576	571	575	574	55
15°	549	546	537	537	533	155
25°	498	491	475	469	465	229
35°	429	418	399	386	380	269
45°	351	338	314	297	290	271
55°	266	252	228	208	201	238
65°	180	166	142	125	118	179
75°	96	83	65	55	52	102
85°	24	16	14	14	13	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	578.1	578.1	578.1	578.1	578.1
2.5°	579.4	578.1	573.7	578.1	577.7
5°	577.2	575.5	570.7	575.0	574.2
7.5°	572.8	571.1	565.4	568.9	568.0
10°	566.3	565.0	558.9	560.2	558.9
12.5°	558.9	557.1	548.4	549.3	547.1
15°	548.8	546.2	537.0	536.6	532.7
17.5°	538.4	534.4	523.5	521.3	518.3
20°	525.7	521.3	507.4	505.2	501.2
22.5°	511.7	507.4	492.5	487.7	484.7
25°	497.8	491.2	475.0	469.4	464.6
27.5°	482.0	474.2	457.1	449.7	444.9
30°	464.6	456.3	437.9	427.9	424.0
32.5°	447.5	437.5	418.7	407.4	402.1
35°	428.8	418.3	398.6	386.0	379.9
37.5°	410.9	398.2	378.1	363.3	357.2
40°	391.7	378.6	357.6	341.0	335.8
42.5°	371.6	358.0	336.2	320.5	312.2
45°	351.0	338.4	314.4	296.9	290.4
47.5°	329.7	316.6	292.5	274.6	267.2
50°	309.6	295.2	270.3	251.9	245.4
52.5°	287.7	272.9	249.7	229.7	223.1
55°	266.3	252.4	227.9	208.3	201.3
57.5°	244.5	229.7	206.1	186.9	180.8
60°	223.6	208.3	184.7	165.5	158.9
62.5°	201.3	186.9	162.9	145.4	138.8
65°	180.3	165.5	142.3	124.9	118.3
67.5°	159.4	144.5	122.3	105.7	100.4
70°	138.0	123.1	101.3	87.8	82.5
72.5°	117.0	102.6	82.5	70.3	67.2
75°	96.1	83.0	64.6	55.0	52.0
77.5°	74.7	64.2	48.9	41.5	38.9
80°	56.8	46.3	34.1	30.1	29.3
82.5°	39.3	30.1	22.7	21.4	21.0
85°	24.0	16.2	14.0	13.5	13.1
87.5°	10.0	7.0	6.5	6.5	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)