

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: P242776

Luminaire Tested: **S125DR-S375D835-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242776
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-S375D835-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: 1436.5 lumens
Efficiency: N/A
Efficacy: 123.8 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

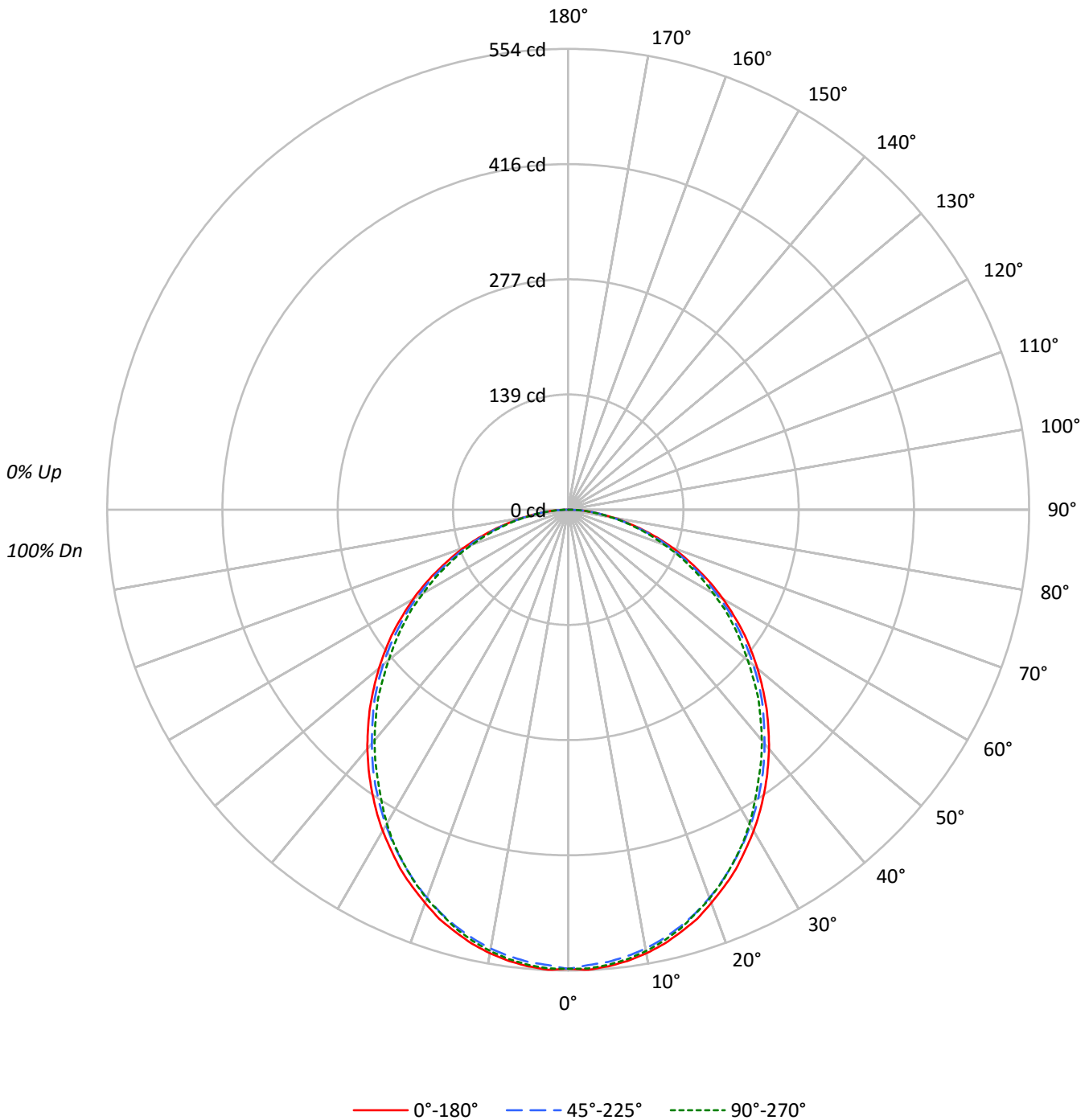
Input Watts (W): 11.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3923	3923	3923
5°	3931	3894	3919
10°	3907	3866	3889
15°	3865	3820	3836
20°	3804	3755	3761
25°	3739	3677	3674
30°	3659	3594	3577
35°	3572	3504	3455
40°	3484	3407	3359
45°	3388	3318	3252
50°	3283	3211	3114
55°	3181	3089	3002
60°	3060	2967	2861
65°	2914	2820	2724
70°	2776	2650	2558
75°	2529	2447	2362
80°	2251	2214	2161
85°	1957	1998	1884



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.1	3.6
10°-20°	147.1	10.2
20°-30°	217.2	15.1
30°-40°	253.4	17.6
40°-50°	254.5	17.7
50°-60°	223.4	15.6
60°-70°	166.4	11.6
70°-80°	95.0	6.6
80°-90°	27.4	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°	416.3	29.0
0°-40°	669.7	46.6
0°-60°	1147.6	79.9
0°-90°	1436.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1436.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	552	552	552	552	552	
5°	551	550	546	550	549	52
15°	525	524	519	521	521	148
25°	477	475	469	470	468	219
35°	412	410	404	402	398	258
45°	337	335	330	325	324	260
55°	257	255	249	245	242	229
65°	173	172	168	164	162	172
75°	92	91	89	88	86	98
85°	24	24	24	24	23	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	551.9	551.9	551.9	551.9	551.9
2.5°	553.6	552.3	548.0	552.3	551.9
5°	551.0	550.1	545.8	549.7	549.3
7.5°	547.1	546.2	541.4	545.3	544.9
10°	541.4	540.5	535.7	539.2	538.8
12.5°	534.4	532.7	528.3	530.9	530.9
15°	525.3	523.9	519.1	521.3	521.3
17.5°	515.7	513.5	508.7	511.3	509.1
20°	503.0	502.1	496.4	499.5	497.3
22.5°	490.3	488.6	483.3	485.1	483.8
25°	476.8	474.6	468.9	469.8	468.5
27.5°	461.1	459.8	454.1	454.5	453.2
30°	445.8	444.5	437.9	437.1	435.8
32.5°	429.2	427.0	421.3	419.6	417.0
35°	411.7	410.0	403.9	401.7	398.2
37.5°	393.8	391.7	386.0	382.9	380.7
40°	375.5	373.3	367.2	363.3	362.0
42.5°	355.8	354.1	348.0	344.5	342.3
45°	337.1	335.3	330.1	324.8	323.5
47.5°	316.6	317.0	310.4	305.2	302.1
50°	296.9	295.6	290.4	284.7	281.6
52.5°	276.8	275.9	270.3	265.5	262.0
55°	256.7	255.4	249.3	245.4	242.3
57.5°	235.3	234.9	229.7	224.4	223.1
60°	215.3	213.5	208.7	204.3	201.3
62.5°	194.3	193.0	189.1	184.3	182.1
65°	173.3	172.5	167.7	163.7	162.0
67.5°	152.8	151.1	147.6	144.1	143.2
70°	133.6	131.4	127.5	124.9	123.1
72.5°	112.6	111.3	109.2	106.1	104.4
75°	92.1	91.3	89.1	87.8	86.0
77.5°	72.9	72.5	71.2	70.3	69.0
80°	55.0	55.0	54.1	53.7	52.8
82.5°	39.3	38.4	38.4	37.5	37.5
85°	24.0	24.5	24.5	24.0	23.1
87.5°	11.8	11.8	11.4	11.4	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)