

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: P243734

Luminaire Tested: **S125RDR-H375D830-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243734
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-66)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125RDR-H375D830-X4F0-XX-UDD-F-W
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1318.5 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.12 / 1.26
Luminous Opening: Rectangular (W 0.39' x L: 3.88' x H: 0')
CIE Type: Direct

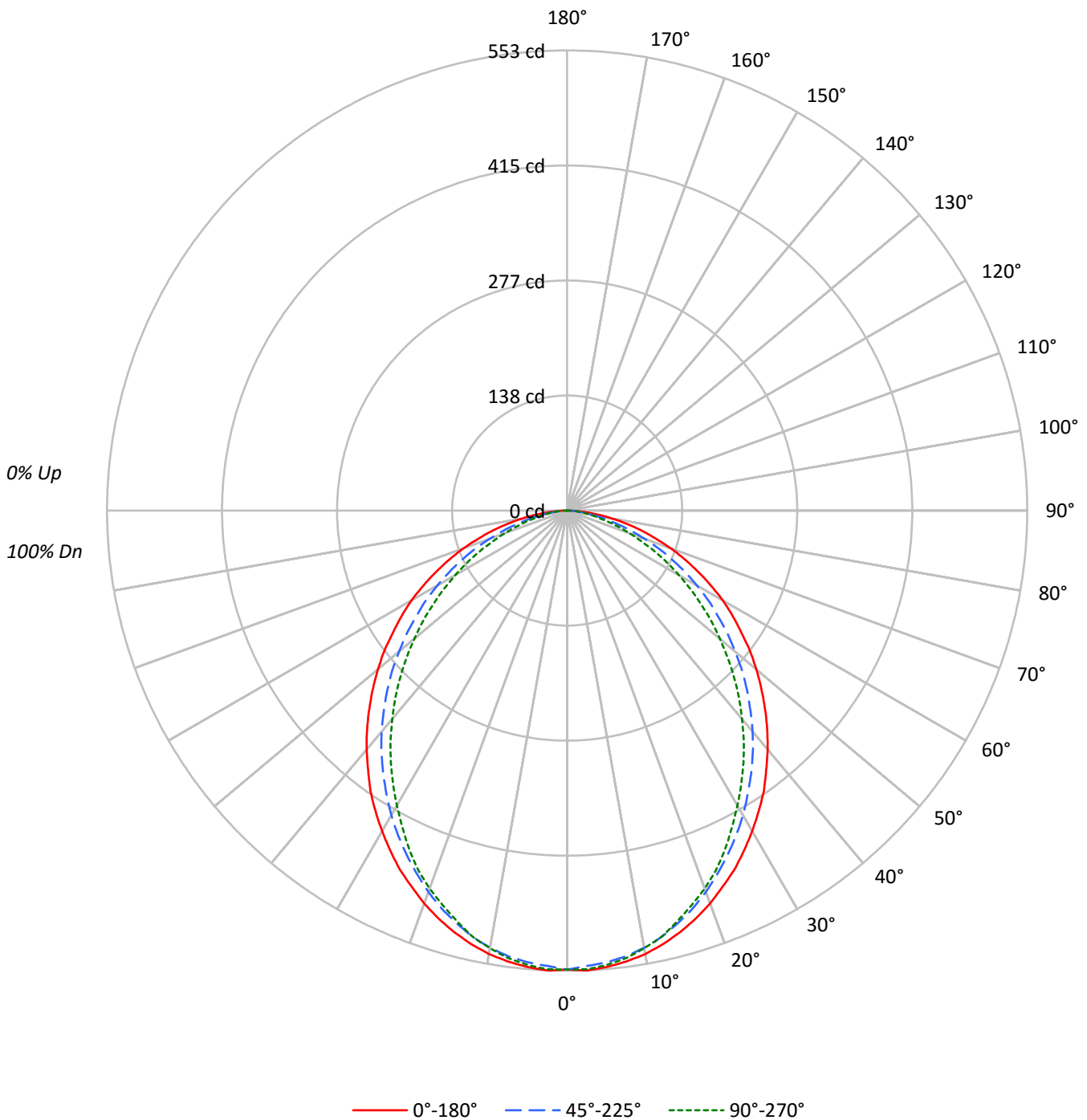
Input Watts (W): 11.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72					72			
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61					61			
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53					53			
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46					46			
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41					41			
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36					36			
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	32					32			
9	58	45	37	32	57	45	37	32	43	36	31	42	36	31	41	35	31	29					29			
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27					27			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3920	3920	3920
5°	3927	3888	3910
10°	3904	3850	3853
15°	3859	3777	3760
20°	3799	3689	3656
25°	3732	3580	3521
30°	3650	3468	3358
35°	3574	3345	3204
40°	3477	3218	3031
45°	3379	3074	2852
50°	3281	2915	2648
55°	3163	2738	2435
60°	3068	2557	2205
65°	2920	2343	1951
70°	2755	2049	1665
75°	2535	1711	1354
80°	2231	1326	1113
85°	1900	1093	1028



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.0	3.9
10°-20°	145.5	11.0
20°-30°	211.8	16.1
30°-40°	242.5	18.4
40°-50°	237.3	18.0
50°-60°	200.4	15.2
60°-70°	140.3	10.6
70°-80°	71.2	5.4
80°-90°	17.5	1.3
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°	409.3	31.0
0°-40°	651.8	49.4
0°-60°	1089.5	82.6
0°-90°	1318.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1318.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	552	552	552	552	552	
5°	550	549	545	548	548	52
15°	524	522	513	513	511	148
25°	476	470	456	452	449	219
35°	412	402	386	374	369	257
45°	336	325	306	290	284	259
55°	255	244	221	203	196	229
65°	174	160	139	122	116	172
75°	92	81	62	52	49	98
85°	23	15	13	13	13	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	551.6	551.6	551.6	551.6	551.6
2.5°	553.2	552.0	547.7	551.6	551.6
5°	550.4	549.3	544.9	548.5	548.1
7.5°	546.5	545.3	540.2	543.7	542.5
10°	541.0	539.4	533.5	535.4	533.9
12.5°	533.5	531.9	524.8	525.6	524.8
15°	524.4	522.4	513.3	513.0	511.0
17.5°	514.1	511.4	501.5	500.3	497.2
20°	502.3	498.7	487.7	485.3	483.4
22.5°	488.9	485.3	472.3	468.8	467.6
25°	475.9	470.3	456.5	451.8	449.0
27.5°	460.5	454.2	440.0	433.6	428.9
30°	444.7	437.6	422.6	414.3	409.2
32.5°	428.5	420.2	404.0	393.8	389.4
35°	411.9	402.1	385.5	374.1	369.3
37.5°	393.0	383.1	366.6	353.1	348.8
40°	374.8	364.6	346.8	332.2	326.7
42.5°	355.9	345.3	325.9	310.5	305.8
45°	336.2	325.1	305.8	289.6	283.7
47.5°	316.5	305.4	285.3	269.1	261.6
50°	296.7	284.9	263.6	247.0	239.5
52.5°	277.0	264.0	243.1	225.3	218.6
55°	255.3	244.2	221.0	203.2	196.5
57.5°	236.0	223.7	201.6	183.5	176.0
60°	215.8	202.4	179.9	162.2	155.1
62.5°	194.5	181.1	159.4	141.7	135.3
65°	173.6	160.2	139.3	121.9	116.0
67.5°	152.7	140.1	119.2	103.0	96.3
70°	132.6	119.6	98.6	84.0	80.1
72.5°	111.3	101.0	80.1	67.1	63.9
75°	92.3	80.9	62.3	52.1	49.3
77.5°	73.0	61.9	46.2	39.1	36.7
80°	54.5	45.0	32.4	28.0	27.2
82.5°	37.5	28.4	21.3	20.5	20.1
85°	23.3	15.0	13.4	12.6	12.6
87.5°	9.9	6.3	6.3	5.9	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)