

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: P243758

Luminaire Tested: **S125RDR-H375D940-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243758
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-H375D940-X4F0-XX-UDD-F-W
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1247.4 lumens
Efficiency: N/A
Efficacy: 111.4 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

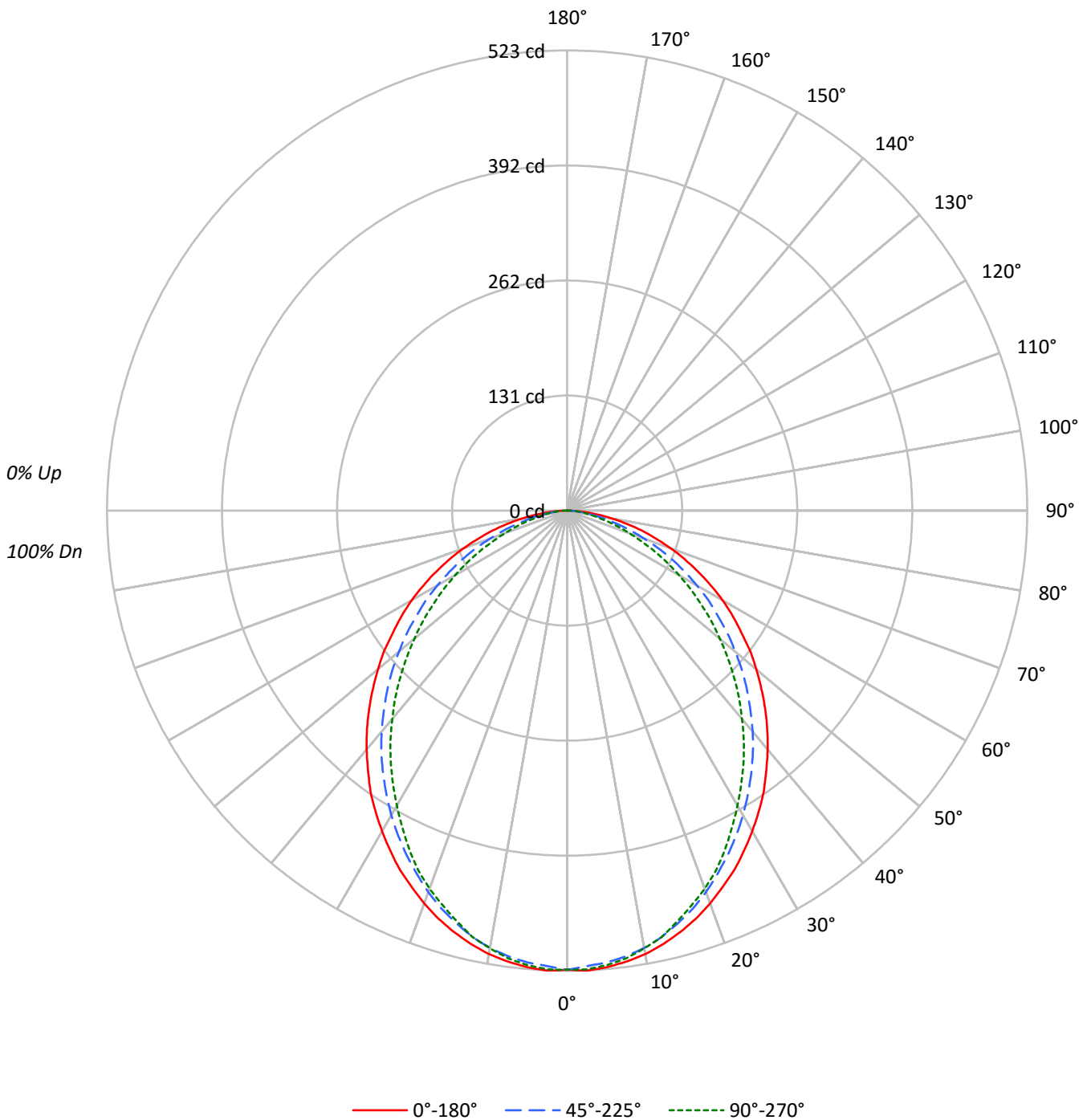
Input Watts (W): 11.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	97	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	63	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	43	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	32
9	58	45	37	32	57	45	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3709	3709	3709
5°	3716	3678	3699
10°	3694	3642	3645
15°	3650	3574	3557
20°	3594	3490	3459
25°	3531	3387	3331
30°	3453	3281	3177
35°	3381	3164	3032
40°	3290	3044	2868
45°	3196	2908	2698
50°	3104	2758	2506
55°	2992	2590	2304
60°	2903	2419	2085
65°	2763	2217	1845
70°	2606	1939	1575
75°	2400	1620	1282
80°	2108	1252	1056
85°	1794	1036	970



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.1	3.9
10°-20°	137.7	11.0
20°-30°	200.4	16.1
30°-40°	229.5	18.4
40°-50°	224.5	18.0
50°-60°	189.6	15.2
60°-70°	132.7	10.6
70°-80°	67.4	5.4
80°-90°	16.6	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°	387.2	31.0
0°-40°	616.6	49.4
0°-60°	1030.7	82.6
0°-90°	1247.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1247.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	522	522	522	522	522	
5°	521	520	516	519	518	49
15°	496	494	486	485	483	140
25°	450	445	432	427	425	207
35°	390	380	365	354	349	243
45°	318	308	289	274	268	245
55°	242	231	209	192	186	217
65°	164	152	132	115	110	163
75°	87	76	59	49	47	92
85°	22	14	13	12	12	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	521.9	521.9	521.9	521.9	521.9
2.5°	523.4	522.2	518.1	521.9	521.9
5°	520.8	519.6	515.5	518.9	518.5
7.5°	517.0	515.9	511.0	514.4	513.3
10°	511.8	510.3	504.7	506.6	505.1
12.5°	504.7	503.2	496.5	497.2	496.5
15°	496.1	494.2	485.7	485.3	483.4
17.5°	486.4	483.8	474.5	473.3	470.4
20°	475.2	471.8	461.4	459.2	457.3
22.5°	462.5	459.2	446.8	443.5	442.4
25°	450.2	445.0	431.9	427.4	424.8
27.5°	435.6	429.7	416.2	410.3	405.8
30°	420.7	414.0	399.8	392.0	387.1
32.5°	405.4	397.6	382.3	372.6	368.4
35°	389.7	380.4	364.7	353.9	349.4
37.5°	371.8	362.5	346.8	334.1	330.0
40°	354.6	344.9	328.1	314.3	309.1
42.5°	336.7	326.6	308.3	293.8	289.3
45°	318.0	307.6	289.3	274.0	268.4
47.5°	299.4	288.9	269.9	254.6	247.5
50°	280.7	269.5	249.4	233.7	226.6
52.5°	262.1	249.7	230.0	213.2	206.8
55°	241.5	231.1	209.0	192.2	185.9
57.5°	223.2	211.7	190.8	173.6	166.5
60°	204.2	191.5	170.2	153.4	146.7
62.5°	184.0	171.3	150.8	134.0	128.0
65°	164.3	151.6	131.8	115.3	109.7
67.5°	144.5	132.5	112.7	97.4	91.1
70°	125.4	113.1	93.3	79.5	75.8
72.5°	105.3	95.6	75.8	63.5	60.5
75°	87.4	76.5	59.0	49.3	46.7
77.5°	69.1	58.6	43.7	37.0	34.7
80°	51.5	42.6	30.6	26.5	25.8
82.5°	35.5	26.9	20.2	19.4	19.0
85°	22.0	14.2	12.7	11.9	11.9
87.5°	9.3	6.0	6.0	5.6	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)