

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: P242873

Luminaire Tested: **S125RDR-S1270D927-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242873
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-S1270D927-X4F0-XX-UDD-F-W
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3672.7 lumens
Efficiency: N/A
Efficacy: 89.4 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

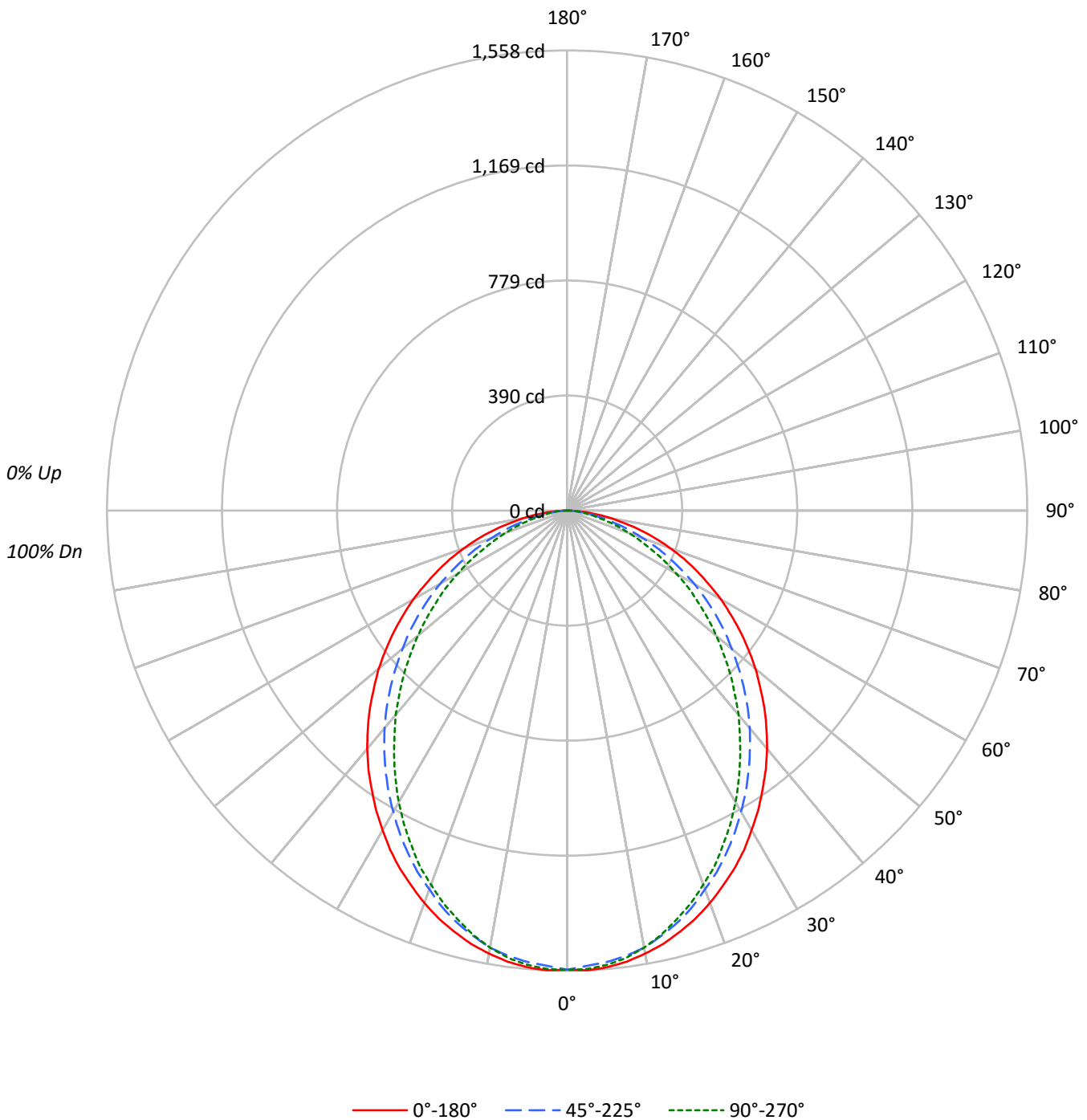
Input Watts (W): 41.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	11048	11048	11048
5°	11073	10948	11015
10°	10990	10846	10846
15°	10859	10626	10540
20°	10692	10319	10194
25°	10496	10017	9796
30°	10252	9664	9356
35°	10003	9300	8862
40°	9771	8922	8377
45°	9488	8496	7848
50°	9204	8036	7295
55°	8875	7595	6706
60°	8544	7059	6075
65°	8155	6436	5351
70°	7710	5661	4611
75°	7093	4773	3836
80°	6246	3749	3221
85°	5268	3066	2870



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.3	4.0
10°-20°	408.9	11.1
20°-30°	592.8	16.1
30°-40°	675.4	18.4
40°-50°	658.3	17.9
50°-60°	554.0	15.1
60°-70°	388.2	10.6
70°-80°	199.0	5.4
80°-90°	49.6	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°	1148.0	31.3
0°-40°	1823.4	49.6
0°-60°	3035.7	82.7
0°-90°	3672.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3672.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1554	1554	1554	1554	1554	
5°	1552	1547	1534	1546	1544	147
15°	1476	1469	1444	1443	1432	416
25°	1338	1321	1277	1262	1249	616
35°	1153	1125	1072	1038	1021	722
45°	944	910	845	798	781	728
55°	716	679	613	560	541	640
65°	485	445	383	336	318	480
75°	258	223	174	148	140	273
85°	65	43	38	36	35	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1554.5	1554.5	1554.5	1554.5	1554.5
2.5°	1558.0	1554.5	1542.7	1554.5	1553.3
5°	1552.1	1547.4	1534.5	1546.3	1543.9
7.5°	1540.4	1535.7	1520.4	1529.8	1527.5
10°	1522.8	1519.3	1502.8	1506.3	1502.8
12.5°	1502.8	1498.1	1474.6	1477.0	1471.1
15°	1475.8	1468.8	1444.1	1442.9	1432.4
17.5°	1447.6	1437.1	1407.7	1401.8	1393.6
20°	1413.6	1401.8	1364.3	1358.4	1347.8
22.5°	1376.0	1364.3	1324.4	1311.4	1303.2
25°	1338.4	1320.8	1277.4	1262.1	1249.2
27.5°	1296.2	1275.0	1229.3	1209.3	1196.4
30°	1249.2	1226.9	1177.6	1150.6	1140.0
32.5°	1203.4	1176.4	1125.9	1095.4	1081.3
35°	1152.9	1124.8	1071.9	1037.9	1021.4
37.5°	1104.8	1070.8	1016.7	976.8	960.4
40°	1053.1	1017.9	961.6	917.0	902.9
42.5°	999.1	962.7	904.0	861.8	839.5
45°	944.0	909.9	845.3	798.4	780.8
47.5°	886.4	851.2	786.6	738.5	718.5
50°	832.4	793.7	726.8	677.4	659.8
52.5°	773.7	733.8	671.6	617.6	600.0
55°	716.2	678.6	612.9	560.0	541.2
57.5°	657.5	617.6	554.2	502.5	486.1
60°	601.1	560.0	496.6	445.0	427.4
62.5°	541.2	502.5	437.9	391.0	373.4
65°	484.9	445.0	382.7	335.8	318.2
67.5°	428.5	388.6	328.7	284.1	270.0
70°	371.0	331.1	272.4	236.0	221.9
72.5°	314.7	275.9	221.9	189.0	180.8
75°	258.3	223.1	173.8	147.9	139.7
77.5°	200.8	172.6	131.5	111.5	104.5
80°	152.6	124.5	91.6	81.0	78.7
82.5°	105.7	81.0	61.1	57.5	56.4
85°	64.6	43.4	37.6	36.4	35.2
87.5°	27.0	18.8	17.6	17.6	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)