

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: P243757

Luminaire Tested: **S125RDR-H1270D935-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243757
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-H1270D935-X4F0-XX-UDD-F-W
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4047.0 lumens
Efficiency: N/A
Efficacy: 107.3 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

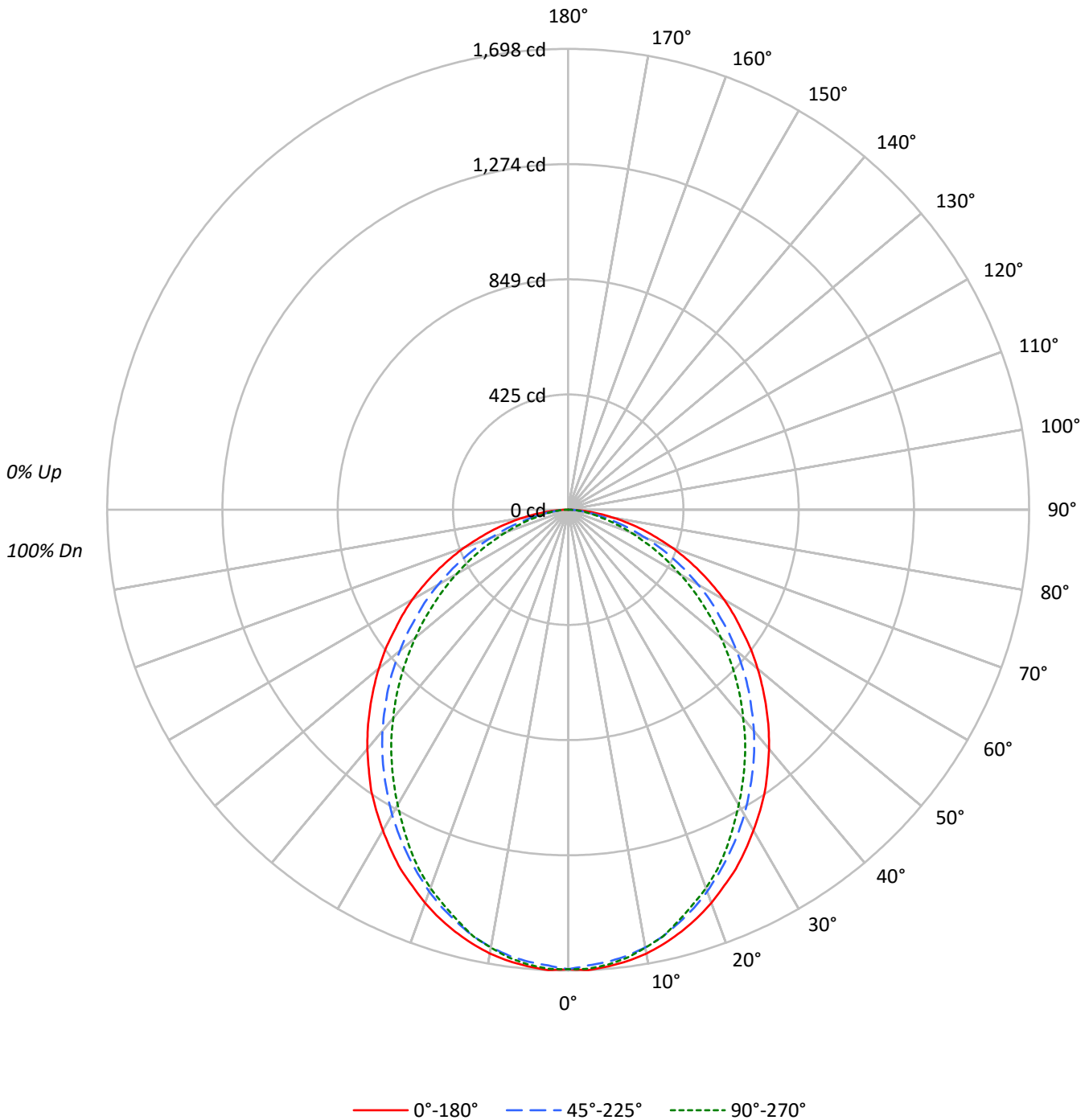
Input Watts (W): 37.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	12033	12033	12033
5°	12054	11932	12002
10°	11983	11817	11826
15°	11843	11593	11540
20°	11661	11322	11221
25°	11454	10988	10808
30°	11202	10645	10307
35°	10971	10266	9836
40°	10674	9877	9304
45°	10372	9434	8753
50°	10070	8945	8128
55°	9710	8404	7473
60°	9417	7851	6766
65°	8962	7189	5989
70°	8456	6292	5110
75°	7782	5256	4158
80°	6839	4064	3422
85°	5831	3360	3164



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.5	3.9
10°-20°	446.7	11.0
20°-30°	650.0	16.1
30°-40°	744.4	18.4
40°-50°	728.4	18.0
50°-60°	615.0	15.2
60°-70°	430.6	10.6
70°-80°	218.7	5.4
80°-90°	53.8	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°	1256.1	31.0
0°-40°	2000.6	49.4
0°-60°	3343.9	82.6
0°-90°	4047.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4047.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1693	1693	1693	1693	1693	
5°	1690	1686	1672	1683	1682	160
15°	1610	1604	1576	1574	1568	454
25°	1461	1444	1401	1387	1378	672
35°	1264	1234	1183	1148	1134	789
45°	1032	998	939	889	871	796
55°	784	750	678	624	603	703
65°	533	492	428	374	356	528
75°	283	248	191	160	151	300
85°	72	46	41	39	39	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1693.1	1693.1	1693.1	1693.1	1693.1
2.5°	1698.0	1694.3	1681.0	1693.1	1693.1
5°	1689.5	1685.8	1672.5	1683.4	1682.2
7.5°	1677.4	1673.7	1658.0	1668.9	1665.3
10°	1660.4	1655.6	1637.4	1643.5	1638.6
12.5°	1637.4	1632.6	1610.8	1613.2	1610.8
15°	1609.5	1603.5	1575.6	1574.4	1568.4
17.5°	1578.1	1569.6	1539.3	1535.7	1526.0
20°	1541.7	1530.8	1496.9	1489.6	1483.6
22.5°	1500.5	1489.6	1449.7	1438.8	1435.1
25°	1460.6	1443.6	1401.2	1386.7	1378.2
27.5°	1413.4	1394.0	1350.4	1331.0	1316.5
30°	1364.9	1343.1	1297.1	1271.7	1255.9
32.5°	1315.3	1289.8	1240.2	1208.7	1195.4
35°	1264.4	1234.1	1183.2	1148.1	1133.6
37.5°	1206.3	1176.0	1125.1	1083.9	1070.6
40°	1150.5	1119.1	1064.6	1019.7	1002.8
42.5°	1092.4	1059.7	1000.4	953.1	938.6
45°	1031.9	997.9	938.6	888.9	870.8
47.5°	971.3	937.4	875.6	826.0	803.0
50°	910.7	874.4	809.0	758.1	735.1
52.5°	850.2	810.2	746.0	691.5	670.9
55°	783.6	749.7	678.2	623.7	603.1
57.5°	724.2	686.7	618.9	563.2	540.1
60°	662.5	621.3	552.3	497.8	476.0
62.5°	597.1	555.9	489.3	434.8	415.4
65°	532.9	491.7	427.5	374.2	356.1
67.5°	468.7	429.9	365.8	316.1	295.5
70°	406.9	367.0	302.8	258.0	245.9
72.5°	341.5	310.0	245.9	205.9	196.2
75°	283.4	248.3	191.4	159.9	151.4
77.5°	224.1	190.1	141.7	119.9	112.6
80°	167.1	138.1	99.3	86.0	83.6
82.5°	115.1	87.2	65.4	63.0	61.8
85°	71.5	46.0	41.2	38.8	38.8
87.5°	30.3	19.4	19.4	18.2	19.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)