

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: P242882

Luminaire Tested: **S125RDR-S1270D835-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242882
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-S1270D835-X4F0-XX-UDD-F-W
Description: DEFINE 5 REGRESSED 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: 4636.1 lumens
Efficiency: N/A
Efficacy: 112.8 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

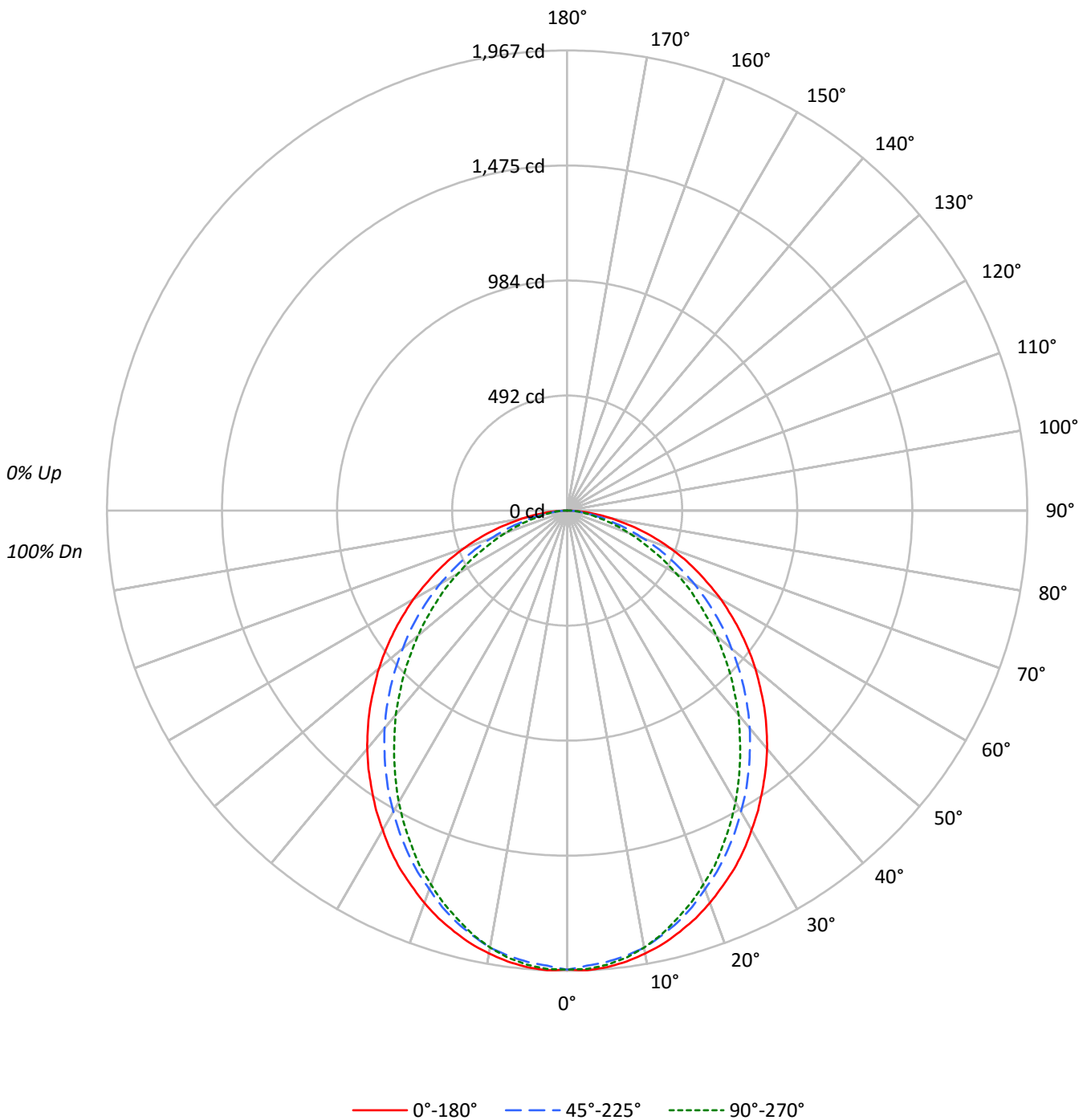
Input Watts (W): 41.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	13947	13947	13947
5°	13979	13820	13904
10°	13873	13691	13691
15°	13708	13414	13304
20°	13496	13026	12869
25°	13250	12645	12366
30°	12941	12199	11810
35°	12628	11740	11187
40°	12334	11262	10574
45°	11977	10726	9907
50°	11619	10144	9209
55°	11203	9586	8466
60°	10786	8911	7669
65°	10294	8126	6754
70°	9732	7144	5821
75°	8955	6022	4844
80°	7887	4731	4064
85°	6646	3865	3629



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.7	4.0
10°-20°	516.1	11.1
20°-30°	748.3	16.1
30°-40°	852.6	18.4
40°-50°	831.0	17.9
50°-60°	699.4	15.1
60°-70°	490.1	10.6
70°-80°	251.2	5.4
80°-90°	62.7	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°	1449.2	31.3
0°-40°	2301.7	49.6
0°-60°	3832.1	82.7
0°-90°	4636.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4636.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1962	1962	1962	1962	1962	
5°	1959	1953	1937	1952	1949	186
15°	1863	1854	1823	1822	1808	525
25°	1690	1667	1612	1593	1577	778
35°	1455	1420	1353	1310	1289	911
45°	1192	1149	1067	1008	986	919
55°	904	857	774	707	683	808
65°	612	562	483	424	402	606
75°	326	282	219	187	176	345
85°	82	55	47	46	44	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1962.3	1962.3	1962.3	1962.3	1962.3
2.5°	1966.7	1962.3	1947.4	1962.3	1960.8
5°	1959.3	1953.4	1937.1	1951.9	1948.9
7.5°	1944.5	1938.6	1919.3	1931.1	1928.2
10°	1922.3	1917.8	1897.1	1901.5	1897.1
12.5°	1897.1	1891.1	1861.5	1864.5	1857.0
15°	1863.0	1854.1	1823.0	1821.5	1808.1
17.5°	1827.4	1814.1	1777.0	1769.6	1759.2
20°	1784.4	1769.6	1722.2	1714.8	1701.4
22.5°	1737.0	1722.2	1671.8	1655.5	1645.1
25°	1689.6	1667.3	1612.5	1593.2	1576.9
27.5°	1636.2	1609.5	1551.7	1526.5	1510.2
30°	1576.9	1548.8	1486.5	1452.4	1439.1
32.5°	1519.1	1485.0	1421.3	1382.8	1365.0
35°	1455.4	1419.8	1353.1	1310.2	1289.4
37.5°	1394.6	1351.7	1283.5	1233.1	1212.3
40°	1329.4	1285.0	1213.8	1157.5	1139.7
42.5°	1261.2	1215.3	1141.2	1087.8	1059.7
45°	1191.6	1148.6	1067.1	1007.8	985.6
47.5°	1119.0	1074.5	993.0	932.2	907.0
50°	1050.8	1001.9	917.4	855.2	832.9
52.5°	976.7	926.3	847.7	779.6	757.3
55°	904.1	856.6	773.6	707.0	683.2
57.5°	830.0	779.6	699.5	634.3	613.6
60°	758.8	707.0	626.9	561.7	539.5
62.5°	683.2	634.3	552.8	493.5	471.3
65°	612.1	561.7	483.2	423.9	401.6
67.5°	541.0	490.6	415.0	358.7	340.9
70°	468.3	417.9	343.8	297.9	280.1
72.5°	397.2	348.3	280.1	238.6	228.2
75°	326.1	281.6	219.3	186.7	176.4
77.5°	253.4	217.9	166.0	140.8	131.9
80°	192.7	157.1	115.6	102.3	99.3
82.5°	133.4	102.3	77.1	72.6	71.1
85°	81.5	54.8	47.4	45.9	44.5
87.5°	34.1	23.7	22.2	22.2	20.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)