

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: P242779

Luminaire Tested: **S125DR-S1270D835-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242779
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DR-S1270D835-X4F0-XX-UDD-F-W
Description: DEFINE 5 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: 4875.9 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular (W 0.39' x L: 3.88' x H: 0')
CIE Type: Direct

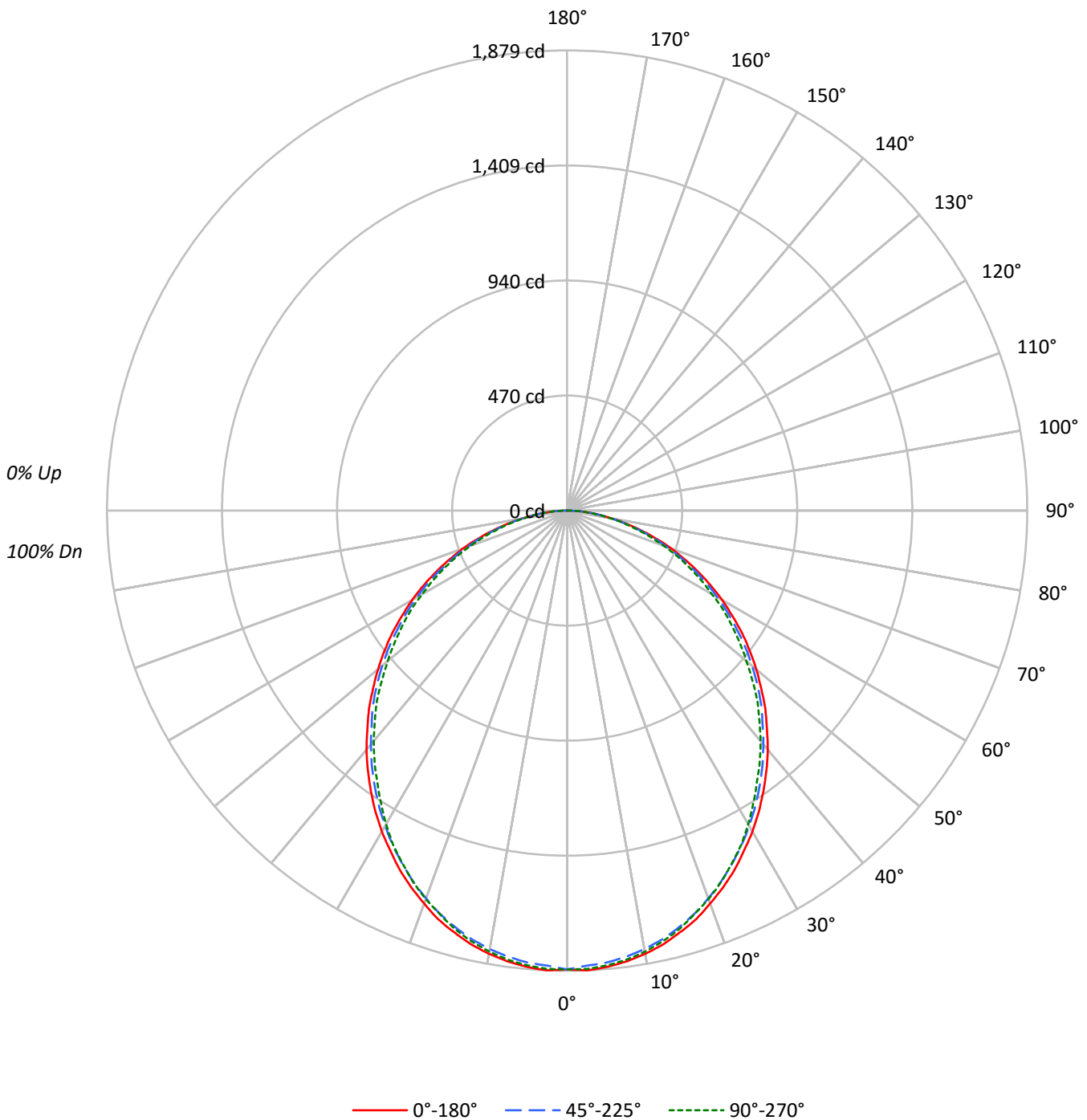
Input Watts (W): 41.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13314	13314	13314
5°	13344	13217	13302
10°	13263	13124	13199
15°	13119	12966	13021
20°	12914	12745	12768
25°	12692	12483	12471
30°	12419	12199	12139
35°	12126	11895	11728
40°	11826	11564	11399
45°	11501	11262	11038
50°	11143	10898	10569
55°	10799	10487	10193
60°	10387	10070	9711
65°	9895	9571	9248
70°	9424	8994	8684
75°	8587	8301	8019
80°	7642	7523	7339
85°	6646	6768	6410



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.8	3.6
10°-20°	499.3	10.2
20°-30°	737.2	15.1
30°-40°	860.1	17.6
40°-50°	863.8	17.7
50°-60°	758.3	15.6
60°-70°	564.8	11.6
70°-80°	322.6	6.6
80°-90°	93.1	1.9
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°	1413.3	29.0
0°-40°	2273.3	46.6
0°-60°	3895.4	79.9
0°-90°	4875.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4875.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1873	1873	1873	1873	1873	
5°	1870	1867	1853	1866	1864	177
15°	1783	1778	1762	1770	1770	503
25°	1618	1611	1592	1595	1590	745
35°	1398	1392	1371	1364	1352	874
45°	1144	1138	1120	1103	1098	882
55°	872	867	846	833	823	778
65°	588	585	569	556	550	584
75°	313	310	302	298	292	333
85°	82	83	83	82	79	95
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1873.3	1873.3	1873.3	1873.3	1873.3
2.5°	1879.3	1874.8	1860.0	1874.8	1873.3
5°	1870.4	1867.4	1852.6	1865.9	1864.5
7.5°	1857.0	1854.1	1837.8	1851.1	1849.6
10°	1837.8	1834.8	1818.5	1830.4	1828.9
12.5°	1814.1	1808.1	1793.3	1802.2	1802.2
15°	1782.9	1778.5	1762.2	1769.6	1769.6
17.5°	1750.3	1742.9	1726.6	1735.5	1728.1
20°	1707.4	1704.4	1685.1	1695.5	1688.1
22.5°	1664.4	1658.4	1640.7	1646.6	1642.1
25°	1618.4	1611.0	1591.8	1594.7	1590.3
27.5°	1565.1	1560.6	1541.4	1542.8	1538.4
30°	1513.2	1508.8	1486.5	1483.6	1479.1
32.5°	1456.9	1449.5	1430.2	1424.3	1415.4
35°	1397.6	1391.7	1370.9	1363.5	1351.7
37.5°	1336.8	1329.4	1310.2	1299.8	1292.4
40°	1274.6	1267.2	1246.4	1233.1	1228.6
42.5°	1207.9	1202.0	1181.2	1169.4	1161.9
45°	1144.2	1138.2	1120.5	1102.7	1098.2
47.5°	1074.5	1076.0	1053.8	1036.0	1025.6
50°	1007.8	1003.4	985.6	966.3	955.9
52.5°	939.6	936.7	917.4	901.1	889.2
55°	871.5	867.0	846.3	832.9	822.6
57.5°	798.8	797.4	779.6	761.8	757.3
60°	730.7	724.7	708.4	693.6	683.2
62.5°	659.5	655.1	641.7	625.4	618.0
65°	588.4	585.4	569.1	555.8	549.9
67.5°	518.7	512.8	500.9	489.1	486.1
70°	453.5	446.1	432.8	423.9	417.9
72.5°	382.4	377.9	370.5	360.1	354.2
75°	312.7	309.8	302.3	297.9	292.0
77.5°	247.5	246.0	241.6	238.6	234.2
80°	186.7	186.7	183.8	182.3	179.3
82.5°	133.4	130.4	130.4	127.5	127.5
85°	81.5	83.0	83.0	81.5	78.6
87.5°	40.0	40.0	38.5	38.5	35.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)