

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: P242784

Luminaire Tested: **S125DR-S1270D840-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242784
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-S1270D840-X4F0-XX-UDD-F-W
Description: DEFINE 5 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4924.0 lumens
Efficiency: N/A
Efficacy: 119.8 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

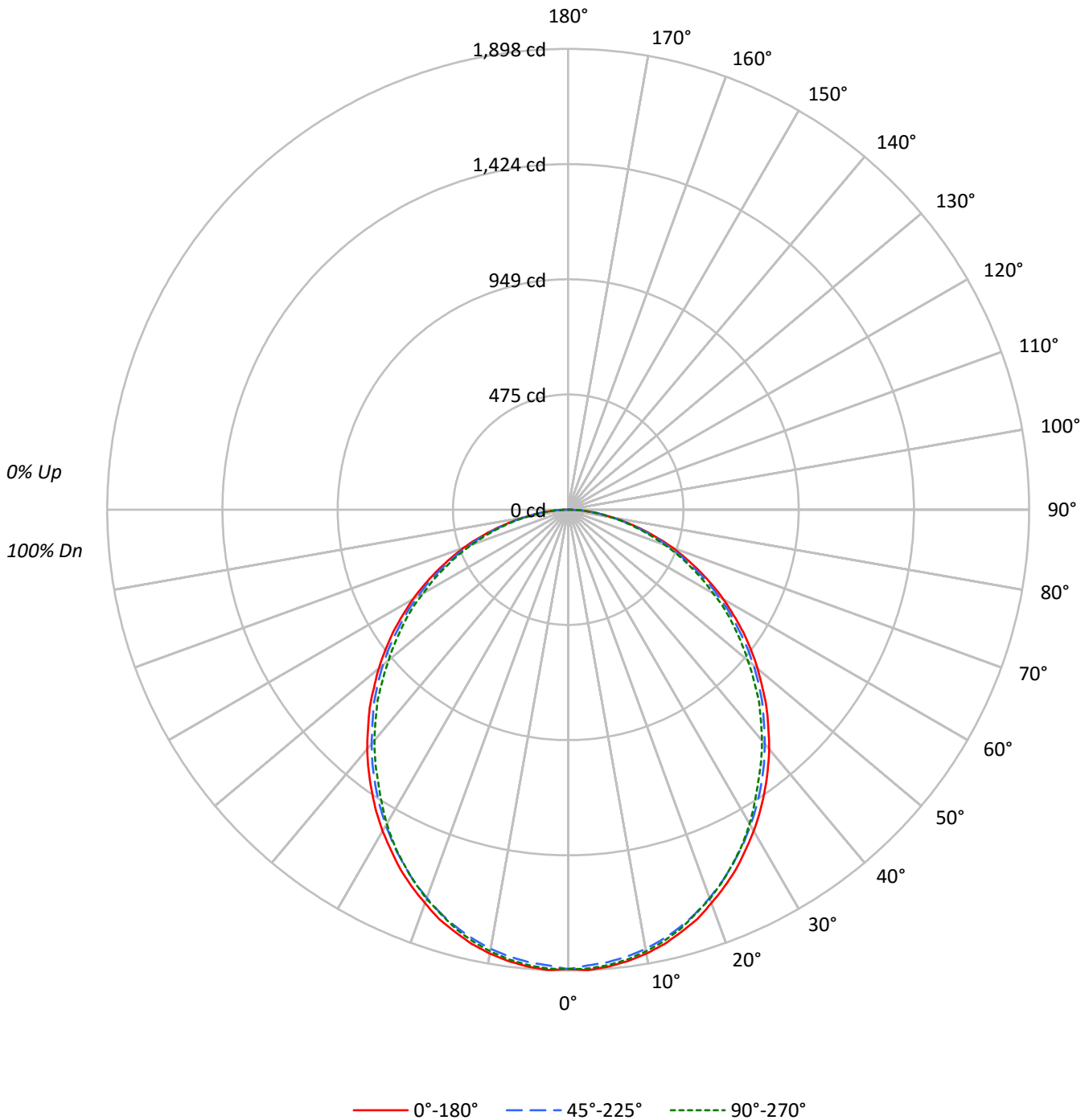
Input Watts (W): 41.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	13446	13446	13446
5°	13476	13348	13433
10°	13394	13253	13329
15°	13248	13094	13150
20°	13041	12871	12893
25°	12817	12606	12594
30°	12541	12320	12259
35°	12246	12012	11843
40°	11943	11678	11512
45°	11614	11373	11148
50°	11254	11005	10674
55°	10906	10590	10293
60°	10489	10169	9808
65°	9993	9665	9339
70°	9517	9081	8771
75°	8672	8384	8095
80°	7719	7597	7412
85°	6711	6834	6467



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.5	3.6
10°-20°	504.2	10.2
20°-30°	744.4	15.1
30°-40°	868.5	17.6
40°-50°	872.3	17.7
50°-60°	765.7	15.6
60°-70°	570.4	11.6
70°-80°	325.8	6.6
80°-90°	94.0	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°	1427.2	29.0
0°-40°	2295.7	46.6
0°-60°	3933.8	79.9
0°-90°	4924.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4924.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1892	1892	1892	1892	1892	
5°	1889	1886	1871	1884	1883	179
15°	1800	1796	1780	1787	1787	508
25°	1634	1627	1608	1610	1606	752
35°	1411	1405	1384	1377	1365	883
45°	1156	1150	1132	1114	1109	890
55°	880	876	855	841	831	786
65°	594	591	575	561	555	589
75°	316	313	305	301	295	336
85°	82	84	84	82	79	96
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1891.8	1891.8	1891.8	1891.8	1891.8
2.5°	1897.8	1893.3	1878.4	1893.3	1891.8
5°	1888.8	1885.8	1870.9	1884.3	1882.8
7.5°	1875.4	1872.4	1855.9	1869.4	1867.9
10°	1855.9	1852.9	1836.4	1848.4	1846.9
12.5°	1832.0	1826.0	1811.0	1820.0	1820.0
15°	1800.5	1796.0	1779.6	1787.1	1787.1
17.5°	1767.6	1760.1	1743.7	1752.6	1745.1
20°	1724.2	1721.2	1701.7	1712.2	1704.7
22.5°	1680.8	1674.8	1656.8	1662.8	1658.3
25°	1634.4	1626.9	1607.5	1610.4	1606.0
27.5°	1580.5	1576.0	1556.6	1558.1	1553.6
30°	1528.1	1523.6	1501.2	1498.2	1493.7
32.5°	1471.3	1463.8	1444.3	1438.3	1429.3
35°	1411.4	1405.4	1384.4	1377.0	1365.0
37.5°	1350.0	1342.5	1323.1	1312.6	1305.1
40°	1287.2	1279.7	1258.7	1245.3	1240.8
42.5°	1219.8	1213.8	1192.9	1180.9	1173.4
45°	1155.5	1149.5	1131.5	1113.5	1109.1
47.5°	1085.1	1086.6	1064.2	1046.2	1035.7
50°	1017.8	1013.3	995.3	975.8	965.4
52.5°	948.9	945.9	926.5	910.0	898.0
55°	880.1	875.6	854.6	841.1	830.7
57.5°	806.7	805.2	787.3	769.3	764.8
60°	737.9	731.9	715.4	700.5	690.0
62.5°	666.0	661.5	648.1	631.6	624.1
65°	594.2	591.2	574.7	561.3	555.3
67.5°	523.8	517.9	505.9	493.9	490.9
70°	458.0	450.5	437.0	428.1	422.1
72.5°	386.1	381.7	374.2	363.7	357.7
75°	315.8	312.8	305.3	300.8	294.8
77.5°	249.9	248.5	244.0	241.0	236.5
80°	188.6	188.6	185.6	184.1	181.1
82.5°	134.7	131.7	131.7	128.7	128.7
85°	82.3	83.8	83.8	82.3	79.3
87.5°	40.4	40.4	38.9	38.9	35.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)