

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: P243644

Luminaire Tested: **S125DR-H1270D840-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243644
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-51)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DR-H1270D840-X4F0-XX-UDD-F-W
Description: DEFINE 5 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4997.8 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.39' x L: 3.88' x H: 0')
CIE Type: Direct

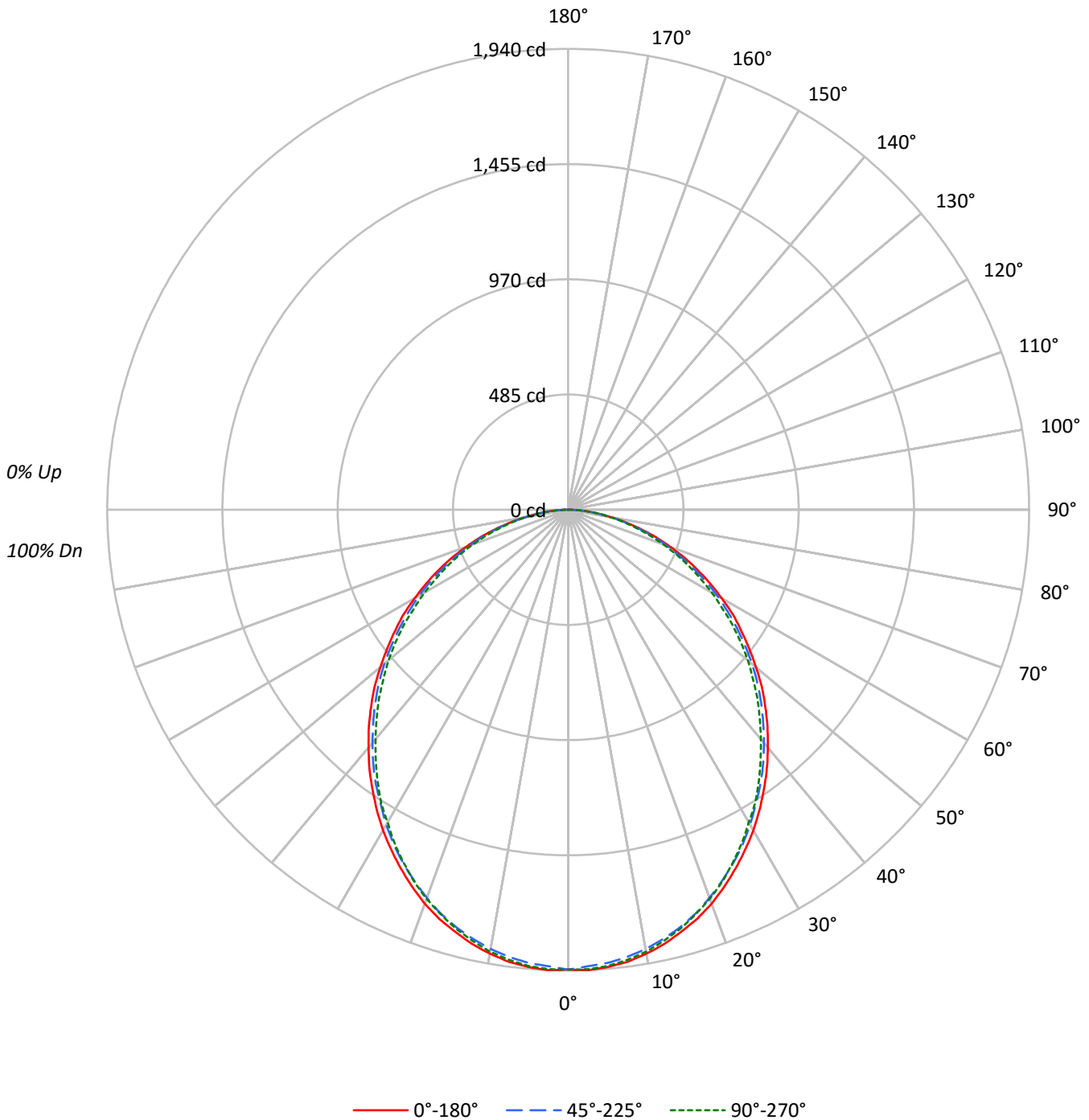
Input Watts (W): 37.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	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	73	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13761	13761	13761
5°	13783	13661	13752
10°	13696	13553	13635
15°	13535	13389	13431
20°	13344	13151	13182
25°	13066	12877	12856
30°	12789	12567	12474
35°	12460	12239	12128
40°	12125	11888	11703
45°	11793	11537	11323
50°	11403	11168	10916
55°	11018	10720	10438
60°	10601	10299	9935
65°	10106	9747	9413
70°	9476	9121	8825
75°	8738	8463	8073
80°	7617	7560	7384
85°	6605	6605	6255



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.6	3.7
10°-20°	515.5	10.3
20°-30°	759.8	15.2
30°-40°	884.9	17.7
40°-50°	886.7	17.7
50°-60°	775.2	15.5
60°-70°	575.3	11.5
70°-80°	326.3	6.5
80°-90°	91.5	1.8
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°	1457.9	29.2
0°-40°	2342.8	46.9
0°-60°	4004.7	80.1
0°-90°	4997.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4997.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1936	1936	1936	1936	1936	
5°	1932	1929	1915	1929	1928	183
15°	1840	1837	1820	1830	1825	519
25°	1666	1661	1642	1646	1639	768
35°	1436	1428	1411	1402	1398	899
45°	1173	1170	1148	1131	1126	905
55°	889	888	865	847	842	796
65°	601	597	580	567	560	596
75°	318	312	308	303	294	337
85°	81	81	81	78	77	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1936.1	1936.1	1936.1	1936.1	1936.1
2.5°	1940.4	1937.6	1923.4	1937.6	1936.1
5°	1931.9	1929.0	1914.8	1929.0	1927.6
7.5°	1919.1	1914.8	1899.2	1913.4	1910.6
10°	1897.8	1894.9	1877.9	1889.3	1889.3
12.5°	1872.2	1868.0	1850.9	1860.8	1859.4
15°	1839.5	1836.7	1819.7	1829.6	1825.3
17.5°	1805.4	1798.3	1782.7	1791.2	1785.6
20°	1764.3	1758.6	1738.7	1745.8	1742.9
22.5°	1717.4	1710.3	1691.8	1696.1	1694.7
25°	1666.2	1660.6	1642.1	1646.4	1639.3
27.5°	1613.7	1606.6	1589.5	1589.5	1582.4
30°	1558.3	1551.2	1531.3	1531.3	1519.9
32.5°	1498.6	1492.9	1468.8	1467.4	1464.5
35°	1436.1	1427.6	1410.6	1402.0	1397.8
37.5°	1373.6	1366.5	1348.1	1336.7	1329.6
40°	1306.9	1302.6	1281.3	1271.3	1261.4
42.5°	1241.5	1237.3	1214.5	1197.5	1193.2
45°	1173.3	1170.5	1147.8	1130.7	1126.5
47.5°	1105.1	1102.3	1079.6	1061.1	1054.0
50°	1031.3	1031.3	1010.0	991.5	987.2
52.5°	960.3	958.8	937.5	919.1	914.8
55°	889.2	887.8	865.1	846.6	842.4
57.5°	822.5	813.9	794.1	779.9	765.6
60°	745.8	741.5	724.5	706.0	698.9
62.5°	674.7	669.1	652.0	636.4	626.4
65°	600.9	596.6	579.6	566.8	559.7
67.5°	531.3	525.6	508.5	498.6	492.9
70°	456.0	451.7	438.9	426.1	424.7
72.5°	389.2	383.5	376.4	365.1	359.4
75°	318.2	312.5	308.2	302.6	294.0
77.5°	250.0	247.2	244.3	240.1	235.8
80°	186.1	186.1	184.7	181.8	180.4
82.5°	132.1	133.5	129.3	126.4	126.4
85°	81.0	81.0	81.0	78.1	76.7
87.5°	39.8	35.5	35.5	32.7	32.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)