

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: P243639

Luminaire Tested: **S125DR-H1270D835-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243639
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-H1270D835-X4F0-XX-UDD-F-W
Description: DEFINE 5 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4948.9 lumens
Efficiency: N/A
Efficacy: 131.3 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

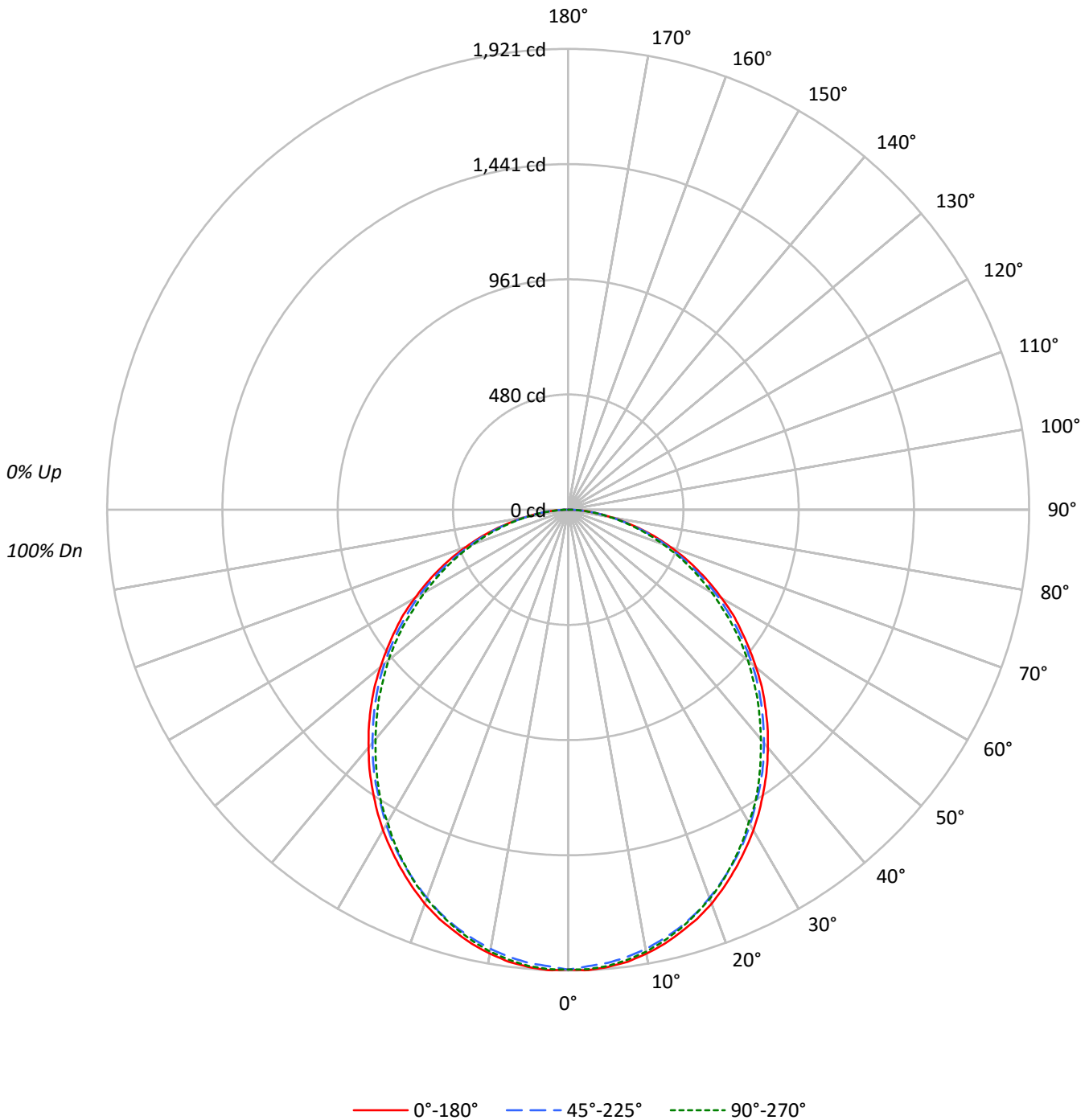
Input Watts (W): 37.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	13626	13626	13626
5°	13648	13528	13618
10°	13562	13421	13502
15°	13403	13258	13300
20°	13213	13022	13054
25°	12939	12752	12729
30°	12664	12444	12352
35°	12339	12119	12009
40°	12007	11772	11589
45°	11679	11423	11211
50°	11291	11058	10809
55°	10911	10614	10336
60°	10498	10198	9838
65°	10006	9652	9320
70°	9382	9031	8740
75°	8653	8381	7997
80°	7543	7486	7310
85°	6540	6540	6198



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.9	3.7
10°-20°	510.4	10.3
20°-30°	752.4	15.2
30°-40°	876.2	17.7
40°-50°	878.0	17.7
50°-60°	767.6	15.5
60°-70°	569.7	11.5
70°-80°	323.1	6.5
80°-90°	90.6	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°	1443.7	29.2
0°-40°	2319.9	46.9
0°-60°	3965.6	80.1
0°-90°	4948.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4948.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1917	1917	1917	1917	1917	
5°	1913	1910	1896	1910	1909	182
15°	1822	1819	1802	1812	1808	514
25°	1650	1644	1626	1630	1623	760
35°	1422	1414	1397	1388	1384	890
45°	1162	1159	1136	1120	1115	896
55°	880	879	857	838	834	788
65°	595	591	574	561	554	590
75°	315	310	305	300	291	334
85°	80	80	80	77	76	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1917.2	1917.2	1917.2	1917.2	1917.2
2.5°	1921.4	1918.6	1904.6	1918.6	1917.2
5°	1913.0	1910.2	1896.1	1910.2	1908.8
7.5°	1900.3	1896.1	1880.6	1894.7	1891.9
10°	1879.2	1876.4	1859.6	1870.8	1870.8
12.5°	1853.9	1849.7	1832.8	1842.7	1841.3
15°	1821.6	1818.8	1801.9	1811.7	1807.5
17.5°	1787.8	1780.8	1765.3	1773.7	1768.1
20°	1747.0	1741.4	1721.7	1728.7	1725.9
22.5°	1700.6	1693.6	1675.3	1679.5	1678.1
25°	1650.0	1644.3	1626.1	1630.3	1623.2
27.5°	1597.9	1590.9	1574.0	1574.0	1567.0
30°	1543.1	1536.0	1516.3	1516.3	1505.1
32.5°	1484.0	1478.4	1454.4	1453.0	1450.2
35°	1422.1	1413.7	1396.8	1388.3	1384.1
37.5°	1360.2	1353.2	1334.9	1323.6	1316.6
40°	1294.1	1289.9	1268.8	1258.9	1249.1
42.5°	1229.4	1225.2	1202.7	1185.8	1181.6
45°	1161.9	1159.1	1136.5	1119.7	1115.4
47.5°	1094.3	1091.5	1069.0	1050.7	1043.7
50°	1021.2	1021.2	1000.1	981.8	977.6
52.5°	950.9	949.5	928.4	910.1	905.9
55°	880.5	879.1	856.6	838.3	834.1
57.5°	814.4	806.0	786.3	772.2	758.2
60°	738.5	734.3	717.4	699.1	692.1
62.5°	668.1	662.5	645.6	630.2	620.3
65°	595.0	590.8	573.9	561.2	554.2
67.5°	526.1	520.4	503.6	493.7	488.1
70°	451.5	447.3	434.6	422.0	420.6
72.5°	385.4	379.8	372.8	361.5	355.9
75°	315.1	309.5	305.2	299.6	291.2
77.5°	247.6	244.8	241.9	237.7	233.5
80°	184.3	184.3	182.9	180.0	178.6
82.5°	130.8	132.2	128.0	125.2	125.2
85°	80.2	80.2	80.2	77.4	76.0
87.5°	39.4	35.2	35.2	32.4	32.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)