

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: P242775

Luminaire Tested: **S125DR-S1270D830-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242775
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-S1270D830-X4F0-XX-UDD-F-W
Description: DEFINE 5 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4595.7 lumens
Efficiency: N/A
Efficacy: 111.8 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

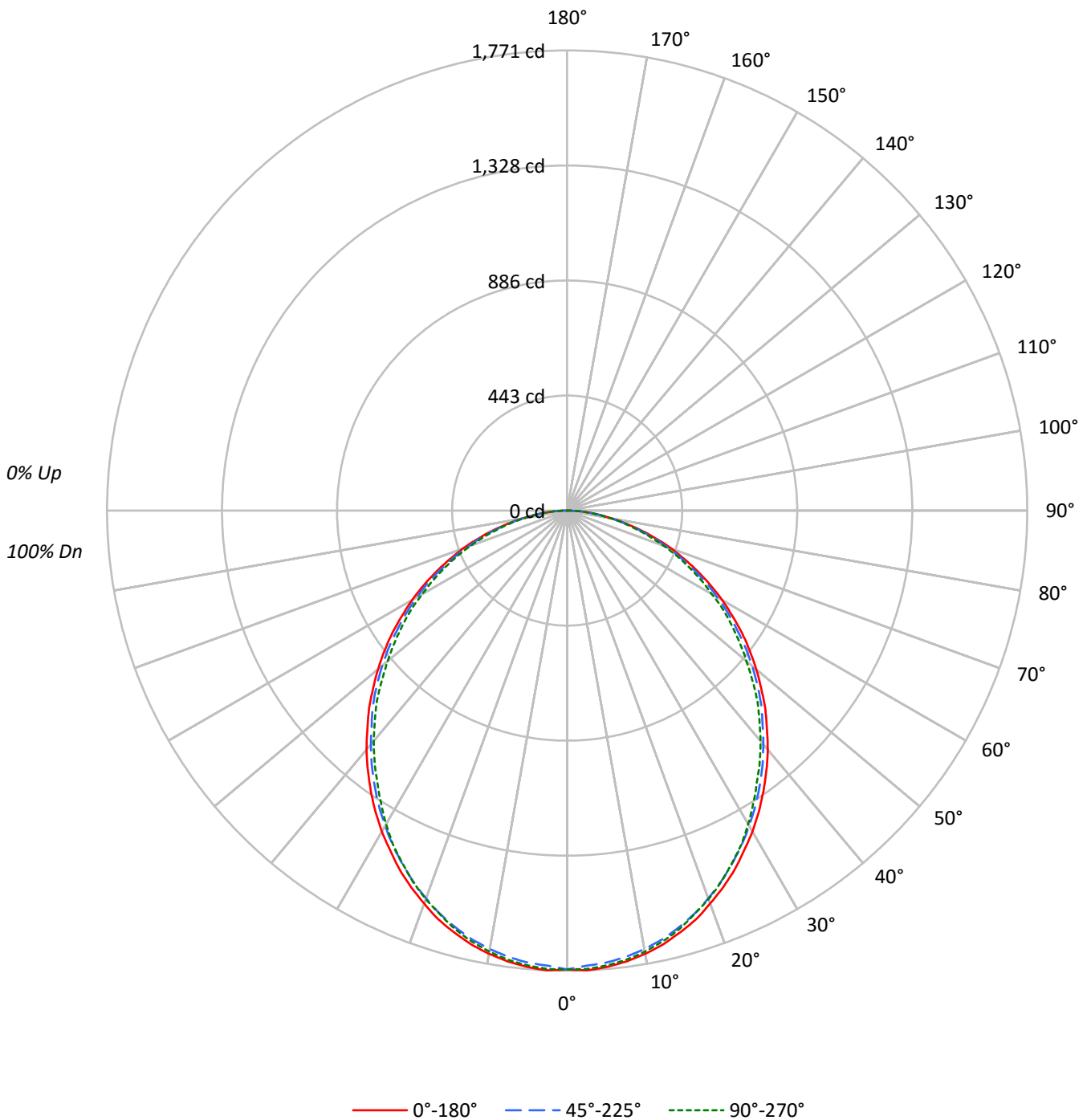
Input Watts (W): 41.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	12549	12549	12549
5°	12577	12458	12537
10°	12501	12370	12441
15°	12365	12221	12273
20°	12172	12013	12034
25°	11962	11765	11755
30°	11705	11499	11441
35°	11430	11212	11054
40°	11147	10900	10744
45°	10839	10615	10404
50°	10503	10272	9962
55°	10178	9883	9607
60°	9790	9491	9154
65°	9327	9021	8716
70°	8884	8476	8185
75°	8095	7826	7557
80°	7204	7089	6917
85°	6263	6377	6035



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.6	3.6
10°-20°	470.6	10.2
20°-30°	694.8	15.1
30°-40°	810.6	17.6
40°-50°	814.2	17.7
50°-60°	714.7	15.6
60°-70°	532.3	11.6
70°-80°	304.0	6.6
80°-90°	87.7	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°	1332.1	29.0
0°-40°	2142.7	46.6
0°-60°	3671.6	79.9
0°-90°	4595.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4595.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1766	1766	1766	1766	1766	
5°	1763	1760	1746	1759	1757	167
15°	1680	1676	1661	1668	1668	474
25°	1525	1518	1500	1503	1499	702
35°	1317	1312	1292	1285	1274	824
45°	1078	1073	1056	1039	1035	831
55°	821	817	798	785	775	733
65°	555	552	536	524	518	550
75°	295	292	285	281	275	314
85°	77	78	78	77	74	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1765.7	1765.7	1765.7	1765.7	1765.7
2.5°	1771.3	1767.1	1753.1	1767.1	1765.7
5°	1762.9	1760.1	1746.2	1758.7	1757.3
7.5°	1750.3	1747.5	1732.2	1744.8	1743.4
10°	1732.2	1729.4	1714.0	1725.2	1723.8
12.5°	1709.8	1704.2	1690.3	1698.7	1698.7
15°	1680.5	1676.3	1660.9	1667.9	1667.9
17.5°	1649.8	1642.8	1627.4	1635.8	1628.8
20°	1609.3	1606.5	1588.3	1598.1	1591.1
22.5°	1568.7	1563.2	1546.4	1552.0	1547.8
25°	1525.4	1518.5	1500.3	1503.1	1498.9
27.5°	1475.1	1471.0	1452.8	1454.2	1450.0
30°	1426.3	1422.1	1401.1	1398.3	1394.1
32.5°	1373.2	1366.2	1348.0	1342.4	1334.1
35°	1317.3	1311.7	1292.2	1285.2	1274.0
37.5°	1260.0	1253.0	1234.9	1225.1	1218.1
40°	1201.4	1194.4	1174.8	1162.2	1158.0
42.5°	1138.5	1132.9	1113.3	1102.2	1095.2
45°	1078.4	1072.8	1056.1	1039.3	1035.1
47.5°	1012.8	1014.2	993.2	976.4	966.7
50°	949.9	945.7	929.0	910.8	901.0
52.5°	885.6	882.9	864.7	849.3	838.2
55°	821.4	817.2	797.6	785.1	775.3
57.5°	752.9	751.5	734.8	718.0	713.8
60°	688.7	683.1	667.7	653.8	644.0
62.5°	621.6	617.4	604.9	589.5	582.5
65°	554.6	551.8	536.4	523.8	518.3
67.5°	488.9	483.3	472.2	461.0	458.2
70°	427.5	420.5	407.9	399.5	393.9
72.5°	360.4	356.2	349.2	339.5	333.9
75°	294.8	292.0	285.0	280.8	275.2
77.5°	233.3	231.9	227.7	224.9	220.7
80°	176.0	176.0	173.2	171.8	169.0
82.5°	125.7	122.9	122.9	120.1	120.1
85°	76.8	78.2	78.2	76.8	74.0
87.5°	37.7	37.7	36.3	36.3	33.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)