

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: P243635

Luminaire Tested: **S125DR-H1270D830-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243635
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-H1270D830-X4F0-XX-UDD-F-W
Description: DEFINE 5 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4664.6 lumens
Efficiency: N/A
Efficacy: 123.7 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

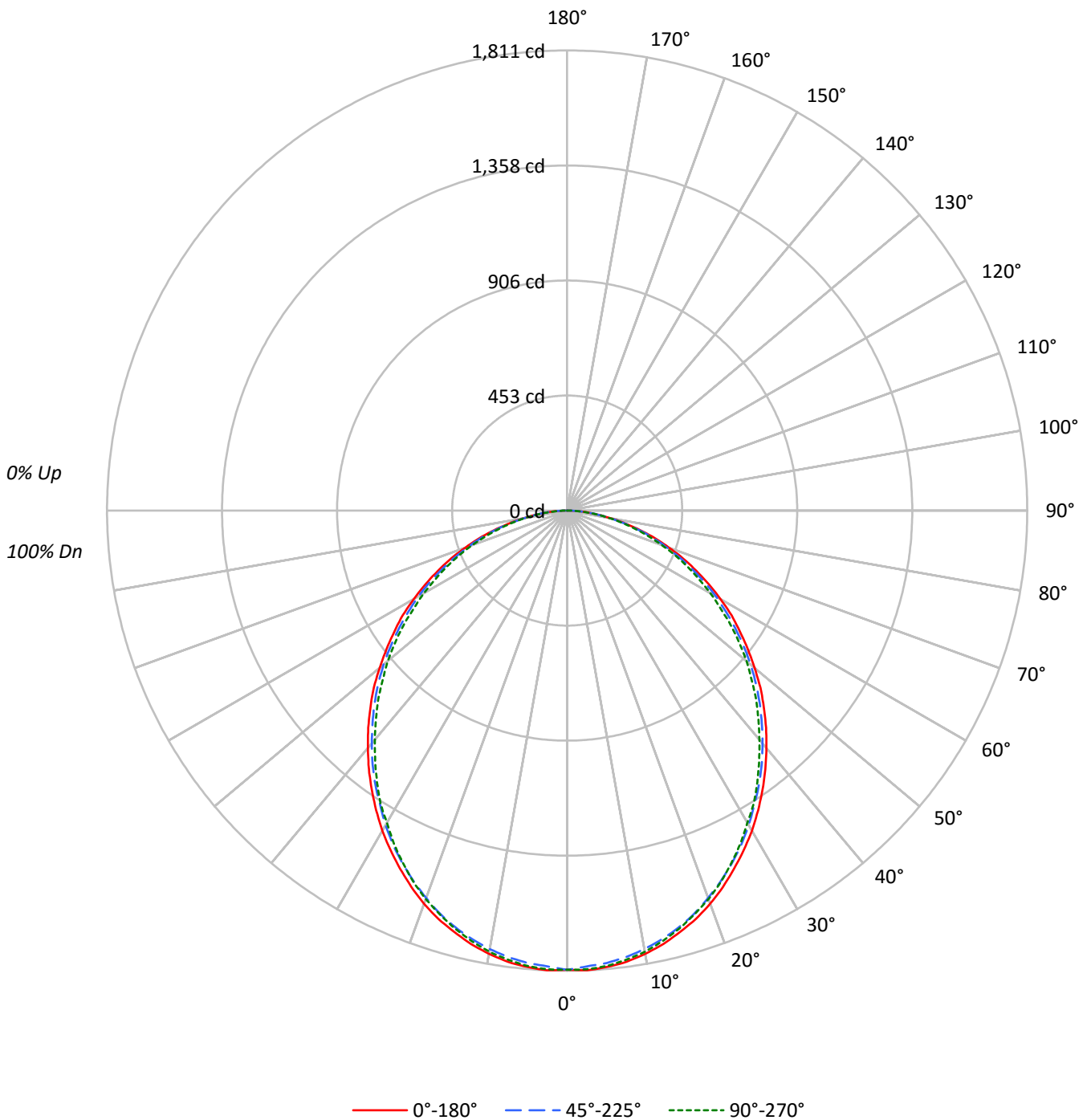
Input Watts (W): 37.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	12844	12844	12844
5°	12864	12751	12836
10°	12783	12649	12726
15°	12633	12496	12536
20°	12454	12274	12304
25°	12196	12019	11998
30°	11936	11729	11642
35°	11630	11423	11319
40°	11316	11096	10923
45°	11007	10767	10568
50°	10642	10422	10188
55°	10284	10005	9742
60°	9893	9612	9272
65°	9431	9097	8785
70°	8844	8514	8237
75°	8156	7900	7535
80°	7109	7056	6893
85°	6165	6165	5839



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.5	3.7
10°-20°	481.1	10.3
20°-30°	709.2	15.2
30°-40°	825.9	17.7
40°-50°	827.6	17.7
50°-60°	723.5	15.5
60°-70°	536.9	11.5
70°-80°	304.5	6.5
80°-90°	85.4	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°	1360.8	29.2
0°-40°	2186.6	46.9
0°-60°	3737.7	80.1
0°-90°	4664.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4664.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1807	1807	1807	1807	1807	
5°	1803	1800	1787	1800	1799	171
15°	1717	1714	1698	1708	1704	484
25°	1555	1550	1533	1537	1530	717
35°	1340	1332	1316	1309	1305	839
45°	1095	1092	1071	1055	1051	845
55°	830	829	807	790	786	743
65°	561	557	541	529	522	556
75°	297	292	288	282	274	315
85°	76	76	76	73	72	88
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1807.1	1807.1	1807.1	1807.1	1807.1
2.5°	1811.0	1808.4	1795.1	1808.4	1807.1
5°	1803.1	1800.4	1787.2	1800.4	1799.1
7.5°	1791.2	1787.2	1772.6	1785.9	1783.2
10°	1771.3	1768.6	1752.7	1763.3	1763.3
12.5°	1747.4	1743.4	1727.5	1736.8	1735.5
15°	1716.9	1714.3	1698.3	1707.6	1703.7
17.5°	1685.1	1678.5	1663.9	1671.8	1666.5
20°	1646.6	1641.3	1622.8	1629.4	1626.8
22.5°	1602.9	1596.3	1579.0	1583.0	1581.7
25°	1555.2	1549.9	1532.6	1536.6	1530.0
27.5°	1506.1	1499.5	1483.6	1483.6	1476.9
30°	1454.4	1447.8	1429.2	1429.2	1418.6
32.5°	1398.7	1393.4	1370.9	1369.5	1366.9
35°	1340.4	1332.4	1316.5	1308.6	1304.6
37.5°	1282.0	1275.4	1258.2	1247.6	1240.9
40°	1219.7	1215.8	1195.9	1186.6	1177.3
42.5°	1158.7	1154.8	1133.6	1117.6	1113.7
45°	1095.1	1092.5	1071.2	1055.3	1051.4
47.5°	1031.5	1028.8	1007.6	990.4	983.7
50°	962.5	962.5	942.6	925.4	921.4
52.5°	896.2	894.9	875.0	857.8	853.8
55°	829.9	828.6	807.4	790.2	786.2
57.5°	767.6	759.7	741.1	727.9	714.6
60°	696.0	692.1	676.2	658.9	652.3
62.5°	629.8	624.5	608.5	594.0	584.7
65°	560.8	556.8	540.9	529.0	522.4
67.5°	495.8	490.5	474.6	465.4	460.1
70°	425.6	421.6	409.7	397.7	396.4
72.5°	363.3	358.0	351.3	340.7	335.4
75°	297.0	291.7	287.7	282.4	274.4
77.5°	233.3	230.7	228.0	224.1	220.1
80°	173.7	173.7	172.4	169.7	168.4
82.5°	123.3	124.6	120.6	118.0	118.0
85°	75.6	75.6	75.6	72.9	71.6
87.5°	37.1	33.1	33.1	30.5	30.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)