

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: P243659

Luminaire Tested: **S125DR-H1270D940-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243659
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-H1270D940-X4F0-XX-UDD-F-W
Description: DEFINE 5 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4413.0 lumens
Efficiency: N/A
Efficacy: 117.1 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

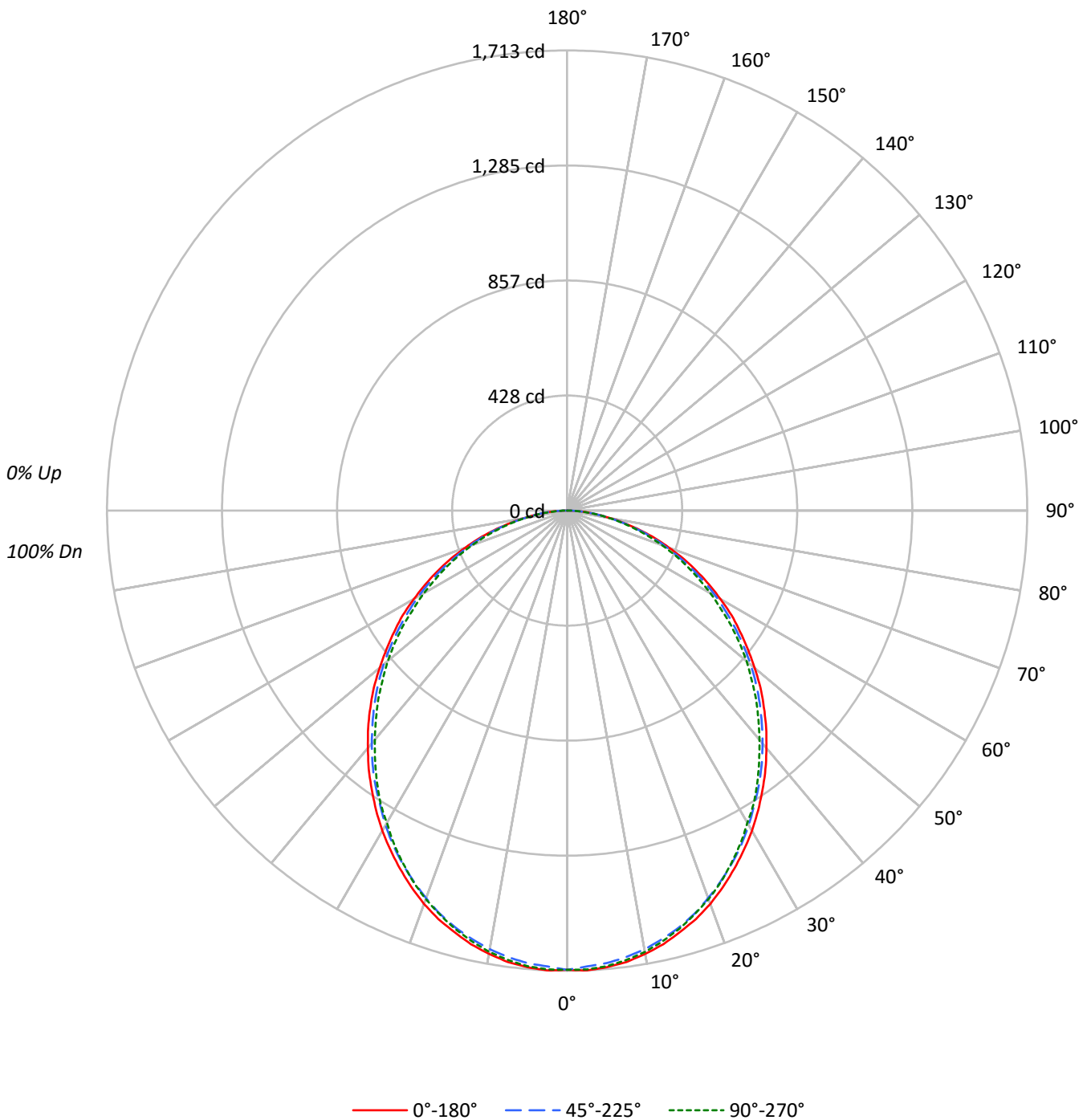
Input Watts (W): 37.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	12151	12151	12151
5°	12170	12063	12144
10°	12094	11967	12039
15°	11952	11823	11860
20°	11782	11612	11640
25°	11538	11371	11351
30°	11293	11096	11014
35°	11003	10807	10708
40°	10707	10497	10334
45°	10413	10187	9998
50°	10069	9861	9638
55°	9730	9466	9217
60°	9360	9093	8772
65°	8923	8607	8311
70°	8366	8055	7793
75°	7716	7475	7129
80°	6725	6676	6520
85°	5831	5831	5521



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.3	3.7
10°-20°	455.1	10.3
20°-30°	670.9	15.2
30°-40°	781.4	17.7
40°-50°	783.0	17.7
50°-60°	684.5	15.5
60°-70°	508.0	11.5
70°-80°	288.1	6.5
80°-90°	80.8	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°	1287.4	29.2
0°-40°	2068.7	46.9
0°-60°	3536.1	80.1
0°-90°	4413.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4413.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1710	1710	1710	1710	1710	
5°	1706	1703	1691	1703	1702	162
15°	1624	1622	1607	1616	1612	458
25°	1471	1466	1450	1454	1448	678
35°	1268	1261	1246	1238	1234	793
45°	1036	1034	1014	998	995	799
55°	785	784	764	748	744	703
65°	531	527	512	500	494	526
75°	281	276	272	267	260	298
85°	72	72	72	69	68	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1709.6	1709.6	1709.6	1709.6	1709.6
2.5°	1713.4	1710.9	1698.3	1710.9	1709.6
5°	1705.8	1703.3	1690.8	1703.3	1702.1
7.5°	1694.6	1690.8	1677.0	1689.5	1687.0
10°	1675.7	1673.2	1658.2	1668.2	1668.2
12.5°	1653.2	1649.4	1634.3	1643.1	1641.9
15°	1624.3	1621.8	1606.8	1615.5	1611.8
17.5°	1594.2	1587.9	1574.1	1581.7	1576.7
20°	1557.8	1552.8	1535.3	1541.5	1539.0
22.5°	1516.4	1510.2	1493.9	1497.6	1496.4
25°	1471.3	1466.3	1450.0	1453.7	1447.5
27.5°	1424.9	1418.6	1403.6	1403.6	1397.3
30°	1376.0	1369.7	1352.1	1352.1	1342.1
32.5°	1323.3	1318.3	1296.9	1295.7	1293.2
35°	1268.1	1260.6	1245.5	1238.0	1234.2
37.5°	1212.9	1206.6	1190.3	1180.3	1174.0
40°	1154.0	1150.2	1131.4	1122.6	1113.8
42.5°	1096.3	1092.5	1072.4	1057.4	1053.6
45°	1036.0	1033.5	1013.5	998.4	994.7
47.5°	975.8	973.3	953.3	937.0	930.7
50°	910.6	910.6	891.8	875.5	871.7
52.5°	847.9	846.7	827.8	811.5	807.8
55°	785.2	783.9	763.9	747.6	743.8
57.5°	726.2	718.7	701.2	688.6	676.1
60°	658.5	654.7	639.7	623.4	617.1
62.5°	595.8	590.8	575.7	561.9	553.1
65°	530.6	526.8	511.8	500.5	494.2
67.5°	469.1	464.1	449.0	440.3	435.2
70°	402.6	398.9	387.6	376.3	375.0
72.5°	343.7	338.7	332.4	322.4	317.3
75°	281.0	275.9	272.2	267.2	259.6
77.5°	220.8	218.2	215.7	212.0	208.2
80°	164.3	164.3	163.1	160.6	159.3
82.5°	116.6	117.9	114.1	111.6	111.6
85°	71.5	71.5	71.5	69.0	67.7
87.5°	35.1	31.4	31.4	28.8	28.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)