

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: P243733

Luminaire Tested: **S125RDR-H1270D927-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243733
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-66)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125RDR-H1270D927-X4F0-XX-UDD-F-W
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3723.5 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.12 / 1.26
Luminous Opening: Rectangular (W 0.39' x L: 3.88' x H: 0')
CIE Type: Direct

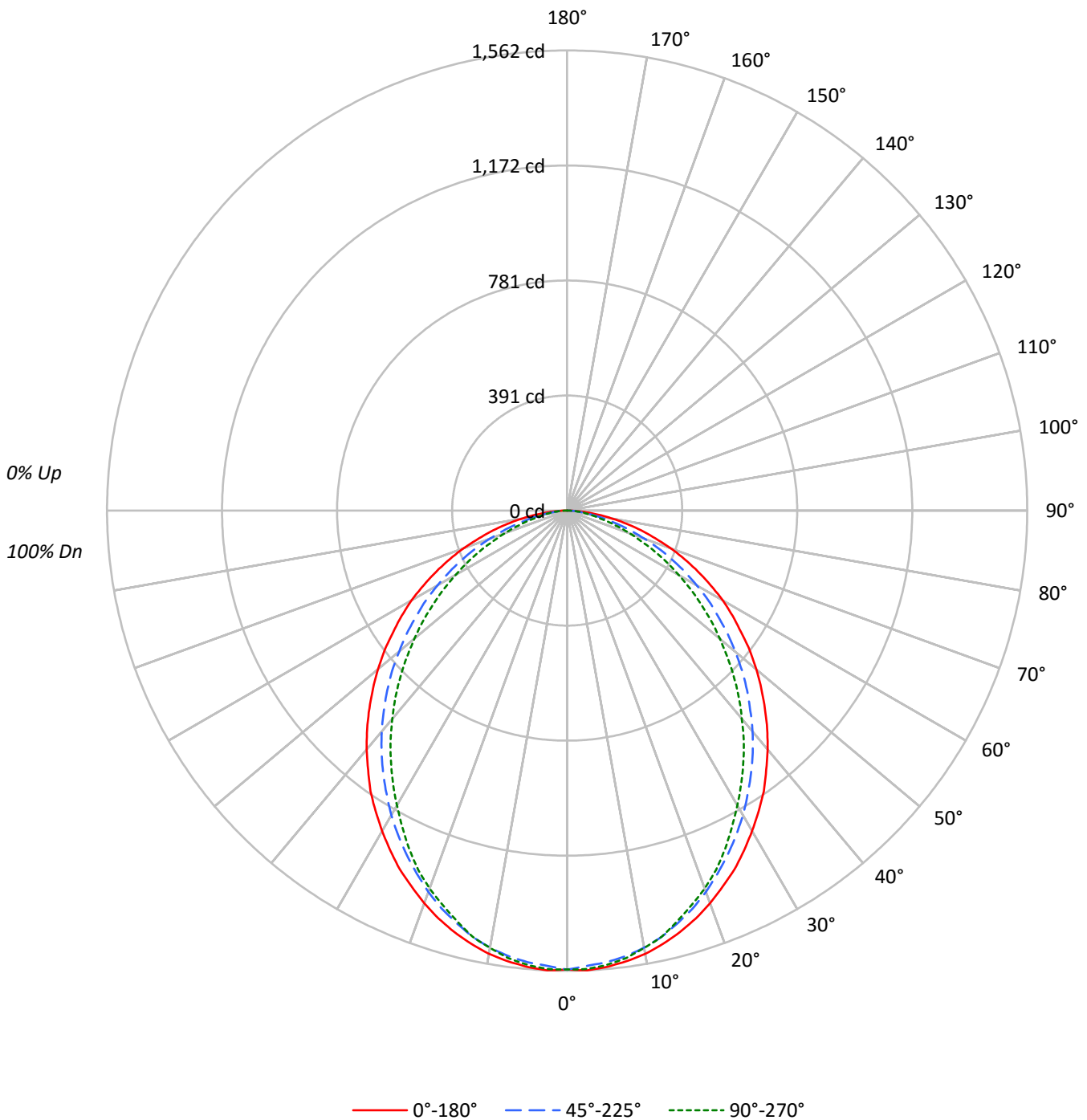
Input Watts (W): 37.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	32
9	58	45	37	32	57	45	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11072	11072	11072
5°	11090	10979	11043
10°	11025	10872	10880
15°	10897	10667	10618
20°	10729	10417	10324
25°	10538	10110	9945
30°	10306	9794	9483
35°	10093	9446	9050
40°	9822	9088	8560
45°	9543	8680	8053
50°	9266	8231	7479
55°	8934	7732	6876
60°	8664	7222	6225
65°	8246	6614	5509
70°	7780	5789	4701
75°	7159	4836	3825
80°	6295	3741	3147
85°	5358	3091	2911



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.7	3.9
10°-20°	411.0	11.0
20°-30°	598.0	16.1
30°-40°	684.9	18.4
40°-50°	670.2	18.0
50°-60°	565.8	15.2
60°-70°	396.1	10.6
70°-80°	201.2	5.4
80°-90°	49.5	1.3
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°	1155.7	31.0
0°-40°	1840.6	49.4
0°-60°	3076.7	82.6
0°-90°	3723.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3723.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1558	1558	1558	1558	1558	
5°	1554	1551	1539	1549	1548	148
15°	1481	1475	1450	1449	1443	417
25°	1344	1328	1289	1276	1268	618
35°	1163	1136	1089	1056	1043	726
45°	949	918	864	818	801	733
55°	721	690	624	574	555	647
65°	490	452	393	344	328	486
75°	261	228	176	147	139	276
85°	66	42	38	36	36	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1557.8	1557.8	1557.8	1557.8	1557.8
2.5°	1562.2	1558.9	1546.6	1557.8	1557.8
5°	1554.4	1551.1	1538.8	1548.9	1547.8
7.5°	1543.3	1540.0	1525.5	1535.5	1532.2
10°	1527.7	1523.2	1506.5	1512.1	1507.6
12.5°	1506.5	1502.1	1482.0	1484.2	1482.0
15°	1480.9	1475.3	1449.7	1448.6	1443.0
17.5°	1451.9	1444.1	1416.3	1412.9	1404.0
20°	1418.5	1408.5	1377.3	1370.6	1365.0
22.5°	1380.6	1370.6	1333.8	1323.8	1320.4
25°	1343.8	1328.2	1289.2	1275.9	1268.1
27.5°	1300.4	1282.6	1242.4	1224.6	1211.2
30°	1255.8	1235.8	1193.4	1170.0	1155.5
32.5°	1210.1	1186.7	1141.0	1112.1	1099.8
35°	1163.3	1135.5	1088.7	1056.4	1043.0
37.5°	1109.8	1082.0	1035.2	997.3	985.0
40°	1058.6	1029.6	979.5	938.2	922.6
42.5°	1005.1	975.0	920.4	877.0	863.6
45°	949.4	918.2	863.6	817.9	801.2
47.5°	893.7	862.5	805.6	760.0	738.8
50°	838.0	804.5	744.4	697.5	676.4
52.5°	782.2	745.5	686.4	636.3	617.3
55°	721.0	689.7	624.0	573.9	554.9
57.5°	666.3	631.8	569.4	518.1	497.0
60°	609.5	571.6	508.1	458.0	437.9
62.5°	549.3	511.5	450.2	400.0	382.2
65°	490.3	452.4	393.3	344.3	327.6
67.5°	431.2	395.6	336.5	290.8	271.9
70°	374.4	337.6	278.6	237.3	226.2
72.5°	314.2	285.3	226.2	189.4	180.5
75°	260.7	228.4	176.1	147.1	139.3
77.5°	206.1	174.9	130.4	110.3	103.6
80°	153.8	127.0	91.4	79.1	76.9
82.5°	105.9	80.2	60.2	57.9	56.8
85°	65.7	42.3	37.9	35.7	35.7
87.5°	27.9	17.8	17.8	16.7	17.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)