

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: P243752

Luminaire Tested: **S125RDR-H1270D930-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243752
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-H1270D930-X4F0-XX-UDD-F-W
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3832.1 lumens
Efficiency: N/A
Efficacy: 101.6 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

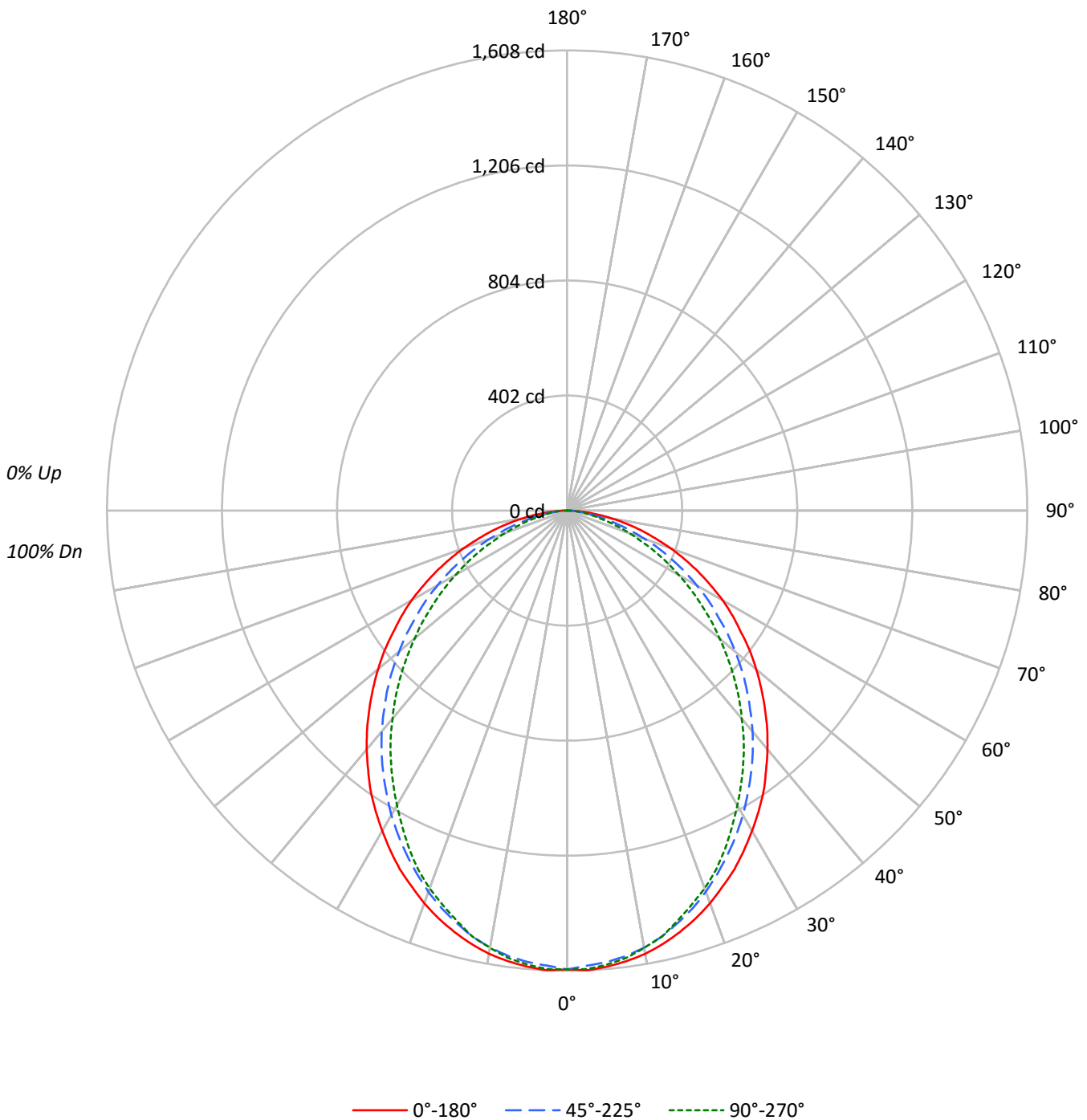
Input Watts (W): 37.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	11394	11394	11394
5°	11414	11299	11365
10°	11347	11190	11198
15°	11214	10978	10927
20°	11042	10721	10625
25°	10846	10406	10235
30°	10607	10080	9760
35°	10388	9721	9313
40°	10108	9352	8810
45°	9821	8934	8288
50°	9536	8471	7697
55°	9194	7958	7077
60°	8917	7433	6407
65°	8486	6808	5671
70°	8007	5958	4838
75°	7370	4976	3938
80°	6479	3847	3238
85°	5521	3180	2993



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.0	3.9
10°-20°	423.0	11.0
20°-30°	615.5	16.1
30°-40°	704.9	18.4
40°-50°	689.7	18.0
50°-60°	582.3	15.2
60°-70°	407.7	10.6
70°-80°	207.1	5.4
80°-90°	50.9	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°	1189.5	31.0
0°-40°	1894.4	49.4
0°-60°	3166.4	82.6
0°-90°	3832.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3832.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1603	1603	1603	1603	1603	
5°	1600	1596	1584	1594	1593	152
15°	1524	1518	1492	1491	1485	430
25°	1383	1367	1327	1313	1305	636
35°	1197	1169	1120	1087	1073	748
45°	977	945	889	842	825	754
55°	742	710	642	591	571	666
65°	505	466	405	354	337	500
75°	268	235	181	151	143	284
85°	68	44	39	37	37	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1603.2	1603.2	1603.2	1603.2	1603.2
2.5°	1607.8	1604.4	1591.8	1603.2	1603.2
5°	1599.8	1596.4	1583.7	1594.1	1592.9
7.5°	1588.3	1584.9	1570.0	1580.3	1576.9
10°	1572.3	1567.7	1550.5	1556.2	1551.6
12.5°	1550.5	1545.9	1525.3	1527.6	1525.3
15°	1524.1	1518.4	1492.0	1490.9	1485.1
17.5°	1494.3	1486.3	1457.6	1454.2	1445.0
20°	1459.9	1449.6	1417.5	1410.6	1404.8
22.5°	1420.9	1410.6	1372.7	1362.4	1359.0
25°	1383.1	1367.0	1326.9	1313.1	1305.1
27.5°	1338.3	1320.0	1278.7	1260.3	1246.6
30°	1292.5	1271.8	1228.2	1204.2	1189.2
32.5°	1245.4	1221.4	1174.3	1144.5	1131.9
35°	1197.3	1168.6	1120.4	1087.2	1073.4
37.5°	1142.2	1113.6	1065.4	1026.4	1013.8
40°	1089.5	1059.7	1008.0	965.6	949.6
42.5°	1034.4	1003.5	947.3	902.5	888.8
45°	977.1	945.0	888.8	841.8	824.6
47.5°	919.7	887.6	829.1	782.1	760.3
50°	862.4	828.0	766.1	717.9	696.1
52.5°	805.1	767.2	706.4	654.8	635.3
55°	742.0	709.9	642.2	590.6	571.1
57.5°	685.8	650.2	586.0	533.3	511.5
60°	627.3	588.3	522.9	471.3	450.7
62.5°	565.4	526.4	463.3	411.7	393.4
65°	504.6	465.6	404.8	354.4	337.2
67.5°	443.8	407.1	346.3	299.3	279.8
70°	385.3	347.5	286.7	244.3	232.8
72.5°	323.4	293.6	232.8	195.0	185.8
75°	268.4	235.1	181.2	151.4	143.4
77.5°	212.2	180.0	134.2	113.5	106.7
80°	158.3	130.7	94.0	81.4	79.1
82.5°	108.9	82.6	61.9	59.6	58.5
85°	67.7	43.6	39.0	36.7	36.7
87.5°	28.7	18.3	18.3	17.2	18.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)