

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: P231769

Luminaire Tested: **S125-RDR-2-35-X-0048-1-U-DD-1-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P231769
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33920)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125-RDR-2-35-X-0048-1-U-DD-1-W
Description: DEFINE 5 LED LINEAR REGRESSED DIRECT RECESSED LED LUMINAIRE WITH FLUSH LENS.
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3907.0 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.11 / 1.26
Luminous Opening: Rectangular (W 0.39' x L: 3.92' x H: 0')
CIE Type: Direct

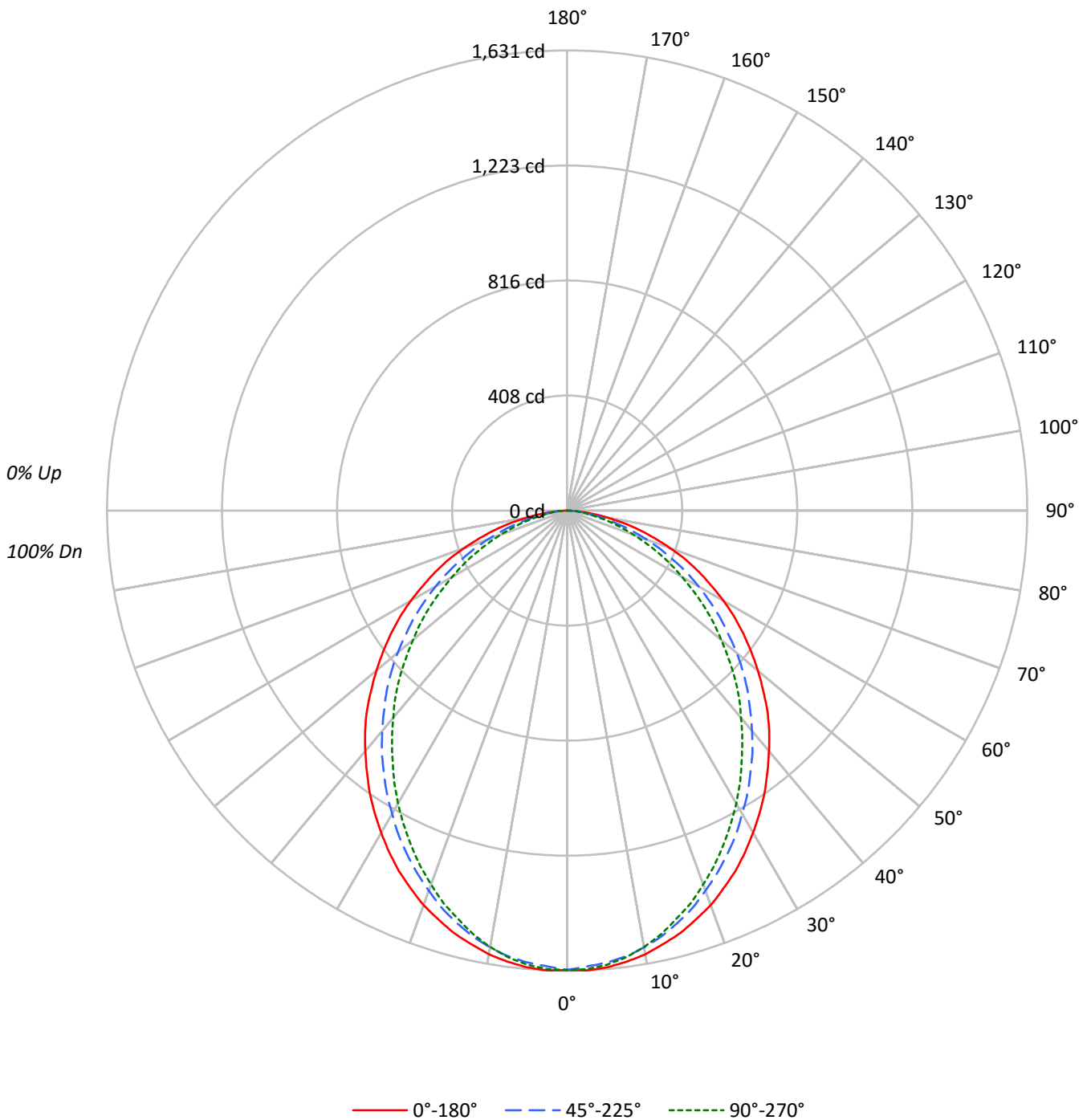
Input Watts (W): 42.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P231769

CATALOG NUMBER: S125-RDR-2-35-X-0048-1-U-DD-1-W

Luminous Intensity Polar Plot





TEST NUMBER: P231769

CATALOG NUMBER: S125-RDR-2-35-X-0048-1-U-DD-1-W

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	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61
4	84	73	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	78	65	56	50	75	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	54	48	43	53	47	43	41
7	67	53	45	39	65	53	45	39	51	44	39	50	43	38	48	42	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	33	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11473	11473	11473
5°	11495	11374	11430
10°	11428	11250	11238
15°	11311	11038	10925
20°	11159	10750	10576
25°	10965	10445	10178
30°	10728	10095	9753
35°	10498	9748	9279
40°	10238	9379	8821
45°	10005	9013	8377
50°	9676	8600	7815
55°	9370	8128	7287
60°	9017	7591	6625
65°	8617	6930	5969
70°	7986	6158	5163
75°	7204	5170	4324
80°	6002	3981	3348
85°	4277	3274	3145



TEST NUMBER: P231769

CATALOG NUMBER: S125-RDR-2-35-X-0048-1-U-DD-1-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.2	3.9
10°-20°	428.4	11.0
20°-30°	623.0	15.9
30°-40°	714.4	18.3
40°-50°	703.0	18.0
50°-60°	597.5	15.3
60°-70°	422.4	10.8
70°-80°	214.1	5.5
80°-90°	51.1	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°	1204.6	30.8
0°-40°	1919.0	49.1
0°-60°	3219.5	82.4
0°-90°	3907.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3907.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1628	1628	1628	1628	1628	
5°	1625	1620	1608	1617	1616	154
15°	1550	1541	1513	1507	1498	437
25°	1410	1387	1343	1323	1309	649
35°	1220	1189	1133	1099	1079	763
45°	1004	965	904	855	841	773
55°	763	721	662	612	593	682
65°	517	475	416	375	358	510
75°	265	234	190	165	159	280
85°	53	45	40	39	39	66
90°	0	0	0	0	0	



TEST NUMBER: P231769

CATALOG NUMBER: S125-RDR-2-35-X-0048-1-U-DD-1-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1628.2	1628.2	1628.2	1628.2	1628.2
2.5°	1631.3	1628.2	1617.3	1628.2	1626.7
5°	1625.1	1620.4	1608.0	1617.3	1615.8
7.5°	1612.7	1608.0	1594.0	1600.2	1597.1
10°	1597.1	1590.9	1572.2	1575.3	1570.6
12.5°	1573.7	1567.5	1545.7	1544.2	1537.9
15°	1550.4	1541.1	1513.0	1506.8	1497.5
17.5°	1519.3	1508.4	1477.2	1467.9	1458.6
20°	1488.1	1472.6	1433.6	1424.3	1410.3
22.5°	1449.2	1430.5	1390.1	1376.1	1362.0
25°	1410.3	1386.9	1343.4	1323.1	1309.1
27.5°	1365.2	1343.4	1295.1	1268.6	1254.6
30°	1318.5	1292.0	1240.6	1214.2	1198.6
32.5°	1270.2	1240.6	1189.3	1155.0	1141.0
35°	1220.4	1189.3	1133.2	1099.0	1078.7
37.5°	1165.9	1133.2	1078.7	1039.8	1019.6
40°	1113.0	1078.7	1019.6	979.1	958.9
42.5°	1060.1	1024.3	960.4	918.4	902.8
45°	1004.0	965.1	904.4	854.6	840.6
47.5°	941.8	906.0	845.2	797.0	775.2
50°	882.6	845.2	784.5	736.3	712.9
52.5°	821.9	786.1	720.7	674.0	655.3
55°	762.7	720.7	661.6	611.8	593.1
57.5°	703.6	660.0	599.3	552.6	529.3
60°	639.8	597.7	538.6	491.9	470.1
62.5°	575.9	537.0	479.4	434.3	415.6
65°	516.8	474.8	415.6	375.1	358.0
67.5°	454.5	417.2	358.0	319.1	303.5
70°	387.6	354.9	298.9	263.1	250.6
72.5°	325.3	292.6	244.4	213.3	202.4
75°	264.6	233.5	189.9	165.0	158.8
77.5°	203.9	179.0	141.7	121.4	116.7
80°	147.9	130.8	98.1	87.2	82.5
82.5°	96.5	82.5	65.4	62.3	60.7
85°	52.9	45.1	40.5	38.9	38.9
87.5°	18.7	20.2	18.7	18.7	18.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)