

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: P231710

Luminaire Tested: **S125-DR-2-40-X-0048-1-U-DD-1-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P231710
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29677)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125-DR-2-40-X-0048-1-U-DD-1-W
Description: DEFINE 5 LED LINEAR DIRECT RECESSED LED LUMINAIRE WITH FLUSH LENS.
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

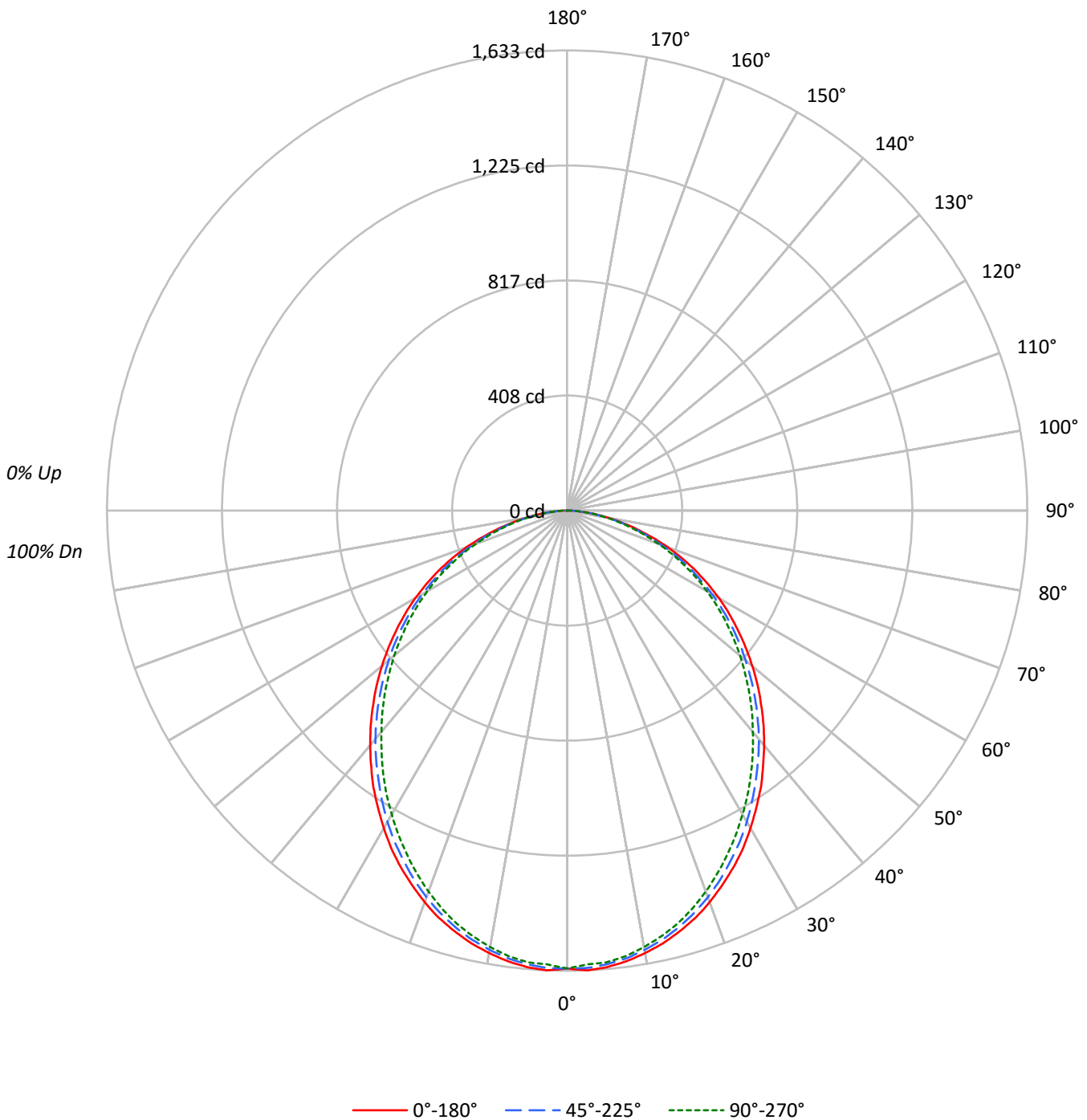
Lumens per Lamp: N/A
Luminaire Lumens: 4106.7 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.29
Luminous Opening: Rectangular (W 0.39' x L: 3.92' x H: 0')
CIE Type: Direct

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: P231710
CATALOG NUMBER: S125-DR-2-40-X-0048-1-U-DD-1-W

Luminous Intensity Polar Plot





TEST NUMBER: P231710

CATALOG NUMBER: S125-DR-2-40-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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	49	75	63	55	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39
7	66	53	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11449	11449	11449
5°	11503	11432	11381
10°	11409	11326	11254
15°	11273	11168	11063
20°	11090	10949	10787
25°	10859	10668	10465
30°	10588	10377	10130
35°	10312	10039	9790
40°	10004	9738	9432
45°	9700	9398	9110
50°	9405	9056	8788
55°	9085	8730	8446
60°	8773	8366	8081
65°	8357	7947	7633
70°	7825	7320	7081
75°	7000	6646	6409
80°	6038	5803	5685
85°	5021	4908	4908



TEST NUMBER: P231710

CATALOG NUMBER: S125-DR-2-40-X-0048-1-U-DD-1-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.9	3.7
10°-20°	430.1	10.5
20°-30°	629.7	15.3
30°-40°	728.3	17.7
40°-50°	726.2	17.7
50°-60°	635.8	15.5
60°-70°	472.2	11.5
70°-80°	260.8	6.4
80°-90°	70.7	1.7
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°	1212.7	29.5
0°-40°	1941.0	47.3
0°-60°	3303.0	80.4
0°-90°	4106.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4106.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1625	1625	1625	1625	1625	
5°	1626	1609	1616	1610	1609	154
15°	1545	1527	1531	1521	1516	436
25°	1397	1375	1372	1350	1346	643
35°	1199	1180	1167	1142	1138	749
45°	973	960	943	917	914	752
55°	740	729	711	690	688	662
65°	501	490	477	464	458	496
75°	257	251	244	238	235	274
85°	62	61	61	59	61	73
90°	0	0	0	0	0	



TEST NUMBER: P231710

CATALOG NUMBER: S125-DR-2-40-X-0048-1-U-DD-1-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1624.8	1624.8	1624.8	1624.8	1624.8
2.5°	1633.4	1616.1	1624.8	1620.5	1611.8
5°	1626.2	1608.9	1616.1	1610.3	1608.9
7.5°	1613.2	1595.9	1603.1	1595.9	1594.5
10°	1594.5	1577.1	1582.9	1575.7	1572.8
12.5°	1572.8	1554.0	1559.8	1549.7	1546.8
15°	1545.3	1526.6	1530.9	1520.8	1516.5
17.5°	1515.0	1494.8	1497.7	1484.7	1480.4
20°	1478.9	1460.1	1460.1	1441.4	1438.5
22.5°	1438.5	1419.7	1418.3	1396.6	1393.7
25°	1396.6	1374.9	1372.0	1350.4	1346.0
27.5°	1351.8	1331.6	1325.8	1301.3	1296.9
30°	1301.3	1281.1	1275.3	1249.3	1244.9
32.5°	1249.3	1233.4	1221.8	1197.3	1193.0
35°	1198.7	1180.0	1167.0	1142.4	1138.1
37.5°	1142.4	1125.1	1113.5	1086.1	1081.7
40°	1087.5	1071.6	1058.6	1031.2	1025.4
42.5°	1031.2	1016.8	1000.9	973.4	970.5
45°	973.4	960.4	943.1	917.1	914.2
47.5°	917.1	902.7	885.3	860.8	856.4
50°	857.9	844.9	826.1	804.4	801.6
52.5°	798.7	787.1	769.8	746.7	743.8
55°	739.5	729.3	710.6	690.4	687.5
57.5°	681.7	670.1	652.8	634.0	631.1
60°	622.5	610.9	593.6	577.7	573.4
62.5°	561.8	550.3	534.4	519.9	517.0
65°	501.2	489.6	476.6	463.6	457.8
67.5°	440.5	430.4	417.4	405.8	402.9
70°	379.8	369.7	355.3	346.6	343.7
72.5°	316.3	307.6	300.4	291.7	288.9
75°	257.1	251.3	244.1	238.3	235.4
77.5°	200.8	196.4	193.5	187.8	187.8
80°	148.8	145.9	143.0	140.1	140.1
82.5°	101.1	99.7	99.7	96.8	98.2
85°	62.1	60.7	60.7	59.2	60.7
87.5°	30.3	28.9	28.9	27.4	28.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)