

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: P231707

Luminaire Tested: **S125-DR-2-27-X-0048-1-U-DD-1-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P231707
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-2-27-X-0048-1-U-DD-1-W
Description: DEFINE 5 LED LINEAR DIRECT RECESSED LED LUMINAIRE WITH FLUSH LENS.
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

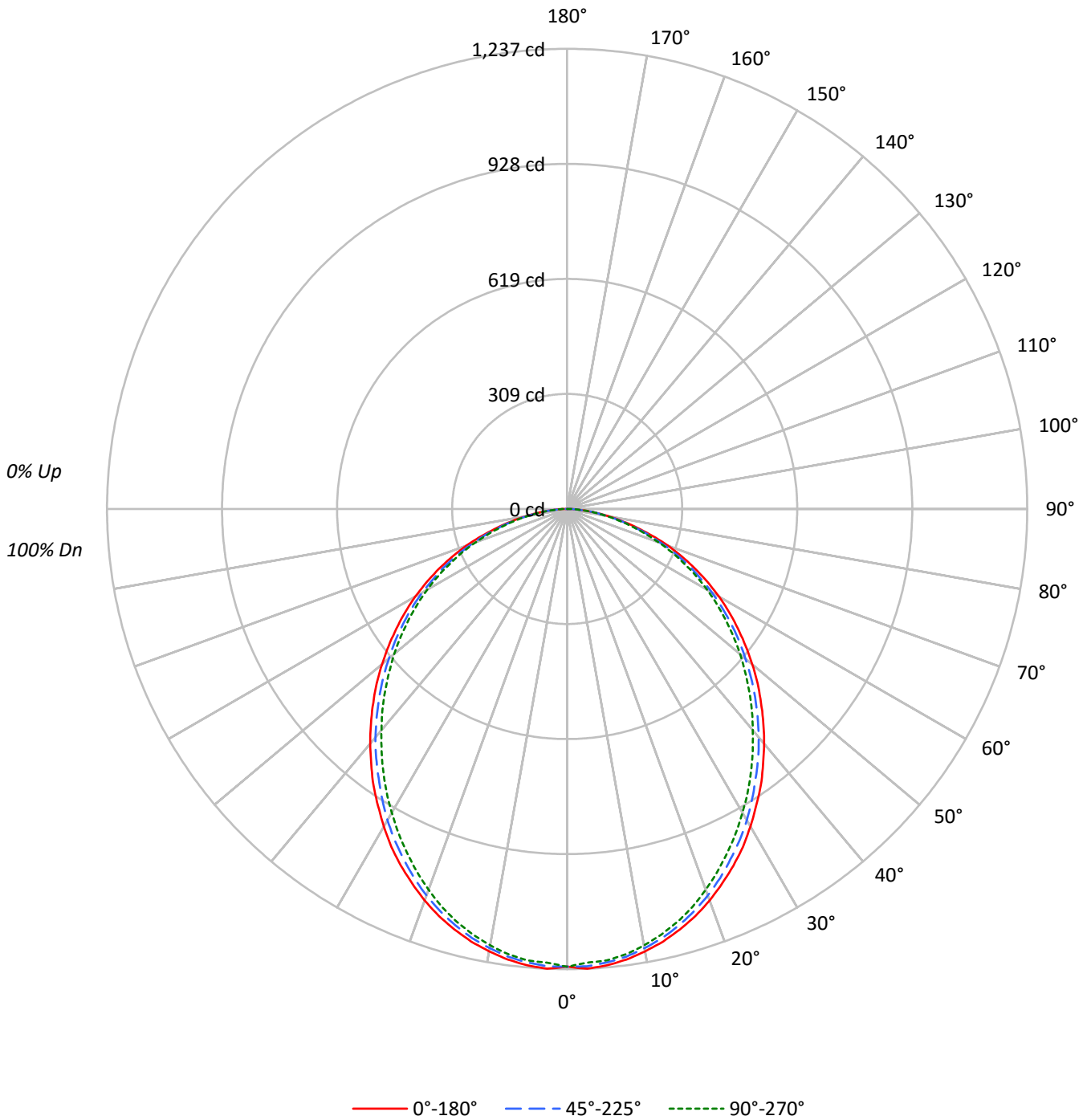
Lumens per Lamp: N/A
Luminaire Lumens: 3110.0 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.29
Luminous Opening: Rectangular (W 0.39' x L: 3.92' x H: 0')
CIE Type: Direct

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: P231707
CATALOG NUMBER: S125-DR-2-27-X-0048-1-U-DD-1-W

Luminous Intensity Polar Plot





TEST NUMBER: P231707

CATALOG NUMBER: S125-DR-2-27-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°	8670	8670	8670
5°	8711	8657	8618
10°	8640	8577	8523
15°	8538	8457	8378
20°	8399	8292	8169
25°	8223	8078	7925
30°	8018	7859	7671
35°	7809	7602	7414
40°	7576	7375	7143
45°	7347	7117	6899
50°	7122	6858	6654
55°	6880	6611	6396
60°	6644	6335	6119
65°	6328	6018	5781
70°	5925	5544	5363
75°	5301	5031	4854
80°	4573	4395	4306
85°	3800	3711	3711



TEST NUMBER: P231707

CATALOG NUMBER: S125-DR-2-27-X-0048-1-U-DD-1-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.8	3.7
10°-20°	325.7	10.5
20°-30°	476.8	15.3
30°-40°	551.5	17.7
40°-50°	550.0	17.7
50°-60°	481.5	15.5
60°-70°	357.6	11.5
70°-80°	197.5	6.4
80°-90°	53.5	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°	918.3	29.5
0°-40°	1469.9	47.3
0°-60°	2501.3	80.4
0°-90°	3110.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3110.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1230	1230	1230	1230	1230	
5°	1232	1218	1224	1220	1218	117
15°	1170	1156	1159	1152	1148	330
25°	1058	1041	1039	1023	1019	487
35°	908	894	884	865	862	567
45°	737	727	714	694	692	569
55°	560	552	538	523	521	501
65°	380	371	361	351	347	376
75°	195	190	185	180	178	207
85°	47	46	46	45	46	55
90°	0	0	0	0	0	



TEST NUMBER: P231707

CATALOG NUMBER: S125-DR-2-27-X-0048-1-U-DD-1-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1230.4	1230.4	1230.4	1230.4	1230.4
2.5°	1237.0	1223.9	1230.4	1227.2	1220.6
5°	1231.5	1218.4	1223.9	1219.5	1218.4
7.5°	1221.7	1208.6	1214.0	1208.6	1207.5
10°	1207.5	1194.3	1198.7	1193.2	1191.1
12.5°	1191.1	1176.8	1181.2	1173.6	1171.4
15°	1170.3	1156.1	1159.3	1151.7	1148.4
17.5°	1147.3	1132.0	1134.2	1124.3	1121.1
20°	1120.0	1105.8	1105.8	1091.5	1089.3
22.5°	1089.3	1075.1	1074.0	1057.6	1055.4
25°	1057.6	1041.2	1039.0	1022.6	1019.3
27.5°	1023.7	1008.4	1004.0	985.4	982.2
30°	985.4	970.1	965.8	946.1	942.8
32.5°	946.1	934.0	925.3	906.7	903.4
35°	907.8	893.6	883.7	865.1	861.9
37.5°	865.1	852.0	843.3	822.5	819.2
40°	823.6	811.5	801.7	780.9	776.5
42.5°	780.9	770.0	757.9	737.2	735.0
45°	737.2	727.3	714.2	694.5	692.3
47.5°	694.5	683.6	670.5	651.9	648.6
50°	649.7	639.8	625.6	609.2	607.0
52.5°	604.8	596.1	583.0	565.5	563.3
55°	560.0	552.3	538.1	522.8	520.6
57.5°	516.2	507.5	494.4	480.1	478.0
60°	471.4	462.6	449.5	437.5	434.2
62.5°	425.5	416.7	404.7	393.7	391.6
65°	379.5	370.8	360.9	351.1	346.7
67.5°	333.6	325.9	316.1	307.3	305.1
70°	287.6	280.0	269.1	262.5	260.3
72.5°	239.5	233.0	227.5	220.9	218.7
75°	194.7	190.3	184.8	180.5	178.3
77.5°	152.0	148.7	146.6	142.2	142.2
80°	112.7	110.5	108.3	106.1	106.1
82.5°	76.6	75.5	75.5	73.3	74.4
85°	47.0	45.9	45.9	44.8	45.9
87.5°	23.0	21.9	21.9	20.8	21.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)