

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: P231703

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P231703
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-1-27-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

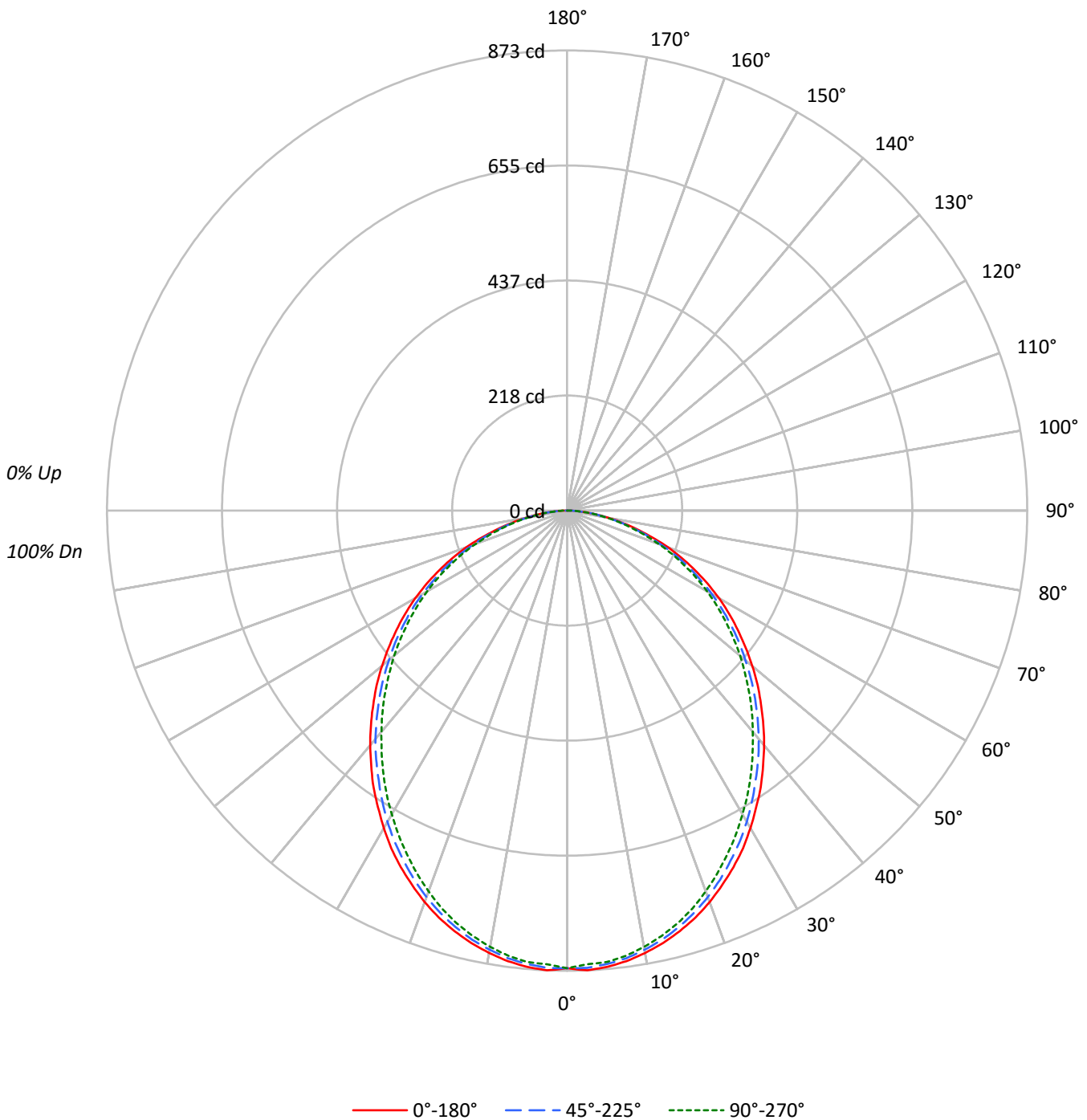
Lumens per Lamp: N/A
Luminaire Lumens: 2194.7 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.29
Luminous Opening: Rectangular (W 0.39' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 27.9
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



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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	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°	6119	6119	6119
5°	6148	6109	6082
10°	6097	6053	6014
15°	6025	5969	5912
20°	5927	5851	5765
25°	5803	5702	5593
30°	5658	5545	5413
35°	5511	5365	5232
40°	5346	5205	5041
45°	5184	5023	4869
50°	5026	4840	4696
55°	4855	4666	4514
60°	4689	4470	4318
65°	4465	4247	4080
70°	4182	3913	3785
75°	3741	3550	3425
80°	3226	3100	3039
85°	2684	2620	2620



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.7	3.7
10°-20°	229.9	10.5
20°-30°	336.5	15.3
30°-40°	389.2	17.7
40°-50°	388.1	17.7
50°-60°	339.8	15.5
60°-70°	252.4	11.5
70°-80°	139.4	6.4
80°-90°	37.8	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°	648.1	29.5
0°-40°	1037.3	47.3
0°-60°	1765.2	80.4
0°-90°	2194.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2194.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	868	868	868	868	868	
5°	869	860	864	861	860	82
15°	826	816	818	813	810	233
25°	746	735	733	722	719	344
35°	641	631	624	610	608	400
45°	520	513	504	490	489	402
55°	395	390	380	369	367	354
65°	268	262	255	248	245	265
75°	137	134	130	127	126	146
85°	33	32	32	32	32	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	868.3	868.3	868.3	868.3	868.3
2.5°	873.0	863.7	868.3	866.0	861.4
5°	869.1	859.8	863.7	860.6	859.8
7.5°	862.2	852.9	856.8	852.9	852.1
10°	852.1	842.9	846.0	842.1	840.5
12.5°	840.5	830.5	833.6	828.2	826.7
15°	825.9	815.8	818.2	812.8	810.4
17.5°	809.7	798.9	800.4	793.5	791.2
20°	790.4	780.3	780.3	770.3	768.8
22.5°	768.8	758.7	758.0	746.4	744.8
25°	746.4	734.8	733.3	721.7	719.4
27.5°	722.5	711.6	708.6	695.4	693.1
30°	695.4	684.6	681.5	667.7	665.3
32.5°	667.7	659.2	653.0	639.9	637.6
35°	640.6	630.6	623.7	610.5	608.2
37.5°	610.5	601.3	595.1	580.4	578.1
40°	581.2	572.7	565.8	551.1	548.0
42.5°	551.1	543.4	534.9	520.2	518.7
45°	520.2	513.3	504.0	490.1	488.6
47.5°	490.1	482.4	473.1	460.0	457.7
50°	458.5	451.5	441.5	429.9	428.4
52.5°	426.8	420.7	411.4	399.0	397.5
55°	395.2	389.8	379.8	368.9	367.4
57.5°	364.3	358.1	348.9	338.8	337.3
60°	332.7	326.5	317.2	308.7	306.4
62.5°	300.3	294.1	285.6	277.9	276.3
65°	267.8	261.7	254.7	247.8	244.7
67.5°	235.4	230.0	223.1	216.9	215.3
70°	203.0	197.6	189.9	185.2	183.7
72.5°	169.0	164.4	160.5	155.9	154.4
75°	137.4	134.3	130.4	127.4	125.8
77.5°	107.3	105.0	103.4	100.3	100.3
80°	79.5	78.0	76.4	74.9	74.9
82.5°	54.0	53.3	53.3	51.7	52.5
85°	33.2	32.4	32.4	31.6	32.4
87.5°	16.2	15.4	15.4	14.7	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)