

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: P231706

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P231706
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-1-40-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: 2898.1 lumens
Efficiency: N/A
Efficacy: 103.9 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

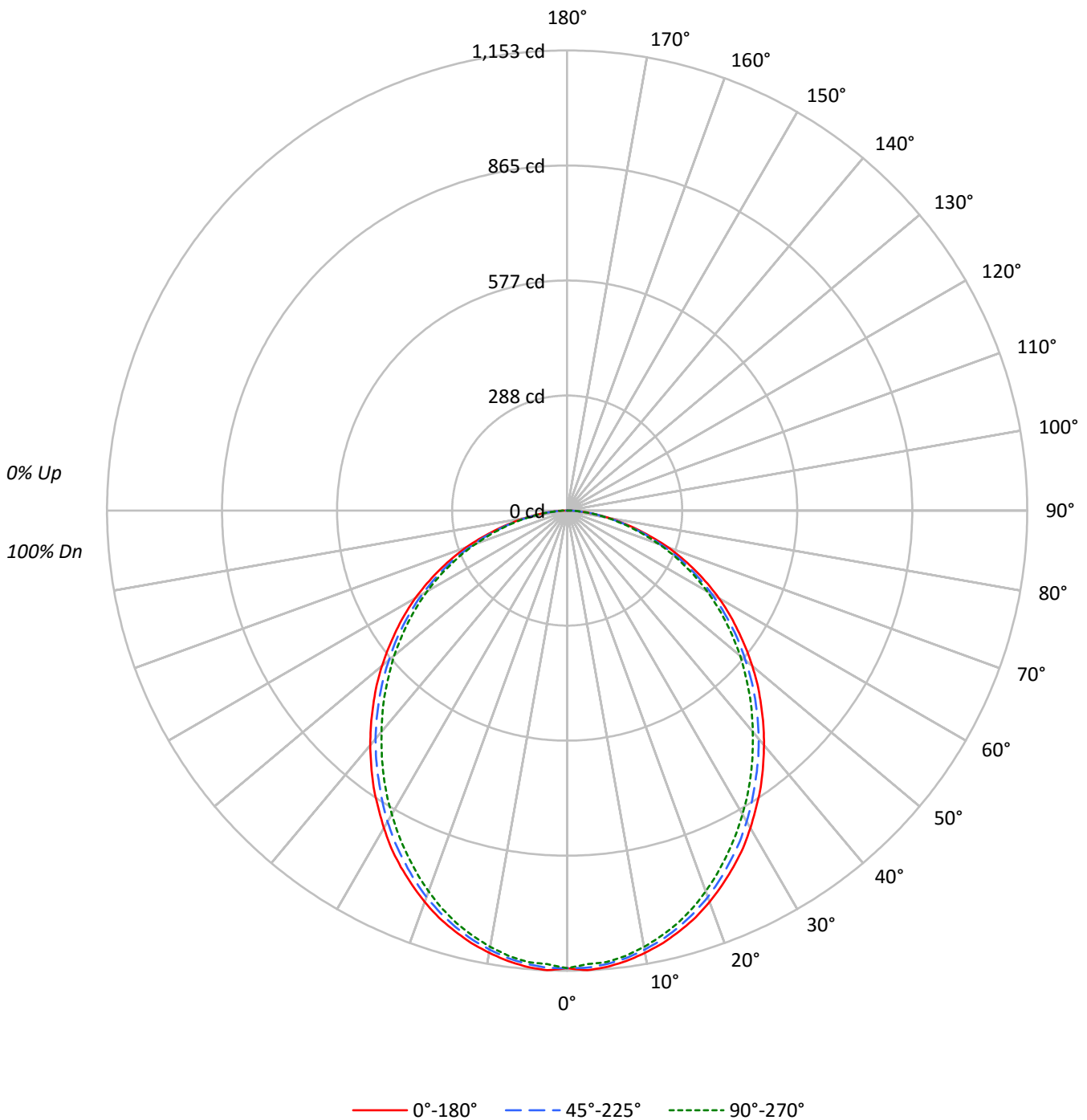
Input Watts (W): 27.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	8080	8080	8080
5°	8118	8067	8031
10°	8051	7993	7942
15°	7956	7882	7807
20°	7827	7727	7613
25°	7663	7529	7386
30°	7472	7323	7149
35°	7278	7084	6909
40°	7060	6872	6657
45°	6846	6633	6430
50°	6637	6391	6202
55°	6411	6161	5961
60°	6191	5904	5702
65°	5898	5607	5387
70°	5524	5165	4998
75°	4939	4688	4522
80°	4261	4095	4013
85°	3541	3460	3460



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.9	3.7
10°-20°	303.5	10.5
20°-30°	444.4	15.3
30°-40°	514.0	17.7
40°-50°	512.5	17.7
50°-60°	448.7	15.5
60°-70°	333.2	11.5
70°-80°	184.1	6.4
80°-90°	49.9	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°	855.8	29.5
0°-40°	1369.8	47.3
0°-60°	2331.0	80.4
0°-90°	2898.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2898.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1147	1147	1147	1147	1147	
5°	1148	1135	1140	1136	1135	109
15°	1091	1077	1080	1073	1070	307
25°	986	970	968	953	950	454
35°	846	833	824	806	803	528
45°	687	678	666	647	645	530
55°	522	515	502	487	485	467
65°	354	346	336	327	323	350
75°	181	177	172	168	166	193
85°	44	43	43	42	43	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1146.6	1146.6	1146.6	1146.6	1146.6
2.5°	1152.7	1140.5	1146.6	1143.6	1137.5
5°	1147.7	1135.4	1140.5	1136.4	1135.4
7.5°	1138.5	1126.2	1131.3	1126.2	1125.2
10°	1125.2	1113.0	1117.1	1112.0	1109.9
12.5°	1109.9	1096.7	1100.8	1093.6	1091.6
15°	1090.6	1077.3	1080.4	1073.2	1070.2
17.5°	1069.2	1054.9	1056.9	1047.8	1044.7
20°	1043.7	1030.4	1030.4	1017.2	1015.2
22.5°	1015.2	1001.9	1000.9	985.6	983.6
25°	985.6	970.3	968.3	953.0	949.9
27.5°	954.0	939.7	935.7	918.3	915.3
30°	918.3	904.1	900.0	881.6	878.6
32.5°	881.6	870.4	862.3	844.9	841.9
35°	846.0	832.7	823.5	806.2	803.2
37.5°	806.2	794.0	785.8	766.5	763.4
40°	767.5	756.3	747.1	727.7	723.7
42.5°	727.7	717.5	706.3	687.0	684.9
45°	687.0	677.8	665.6	647.2	645.2
47.5°	647.2	637.0	624.8	607.5	604.4
50°	605.4	596.2	583.0	567.7	565.7
52.5°	563.6	555.5	543.2	526.9	524.9
55°	521.8	514.7	501.5	487.2	485.2
57.5°	481.1	472.9	460.7	447.4	445.4
60°	439.3	431.1	418.9	407.7	404.6
62.5°	396.5	388.3	377.1	366.9	364.9
65°	353.7	345.5	336.3	327.2	323.1
67.5°	310.9	303.7	294.6	286.4	284.4
70°	268.1	260.9	250.7	244.6	242.6
72.5°	223.2	217.1	212.0	205.9	203.8
75°	181.4	177.3	172.2	168.2	166.1
77.5°	141.7	138.6	136.6	132.5	132.5
80°	105.0	102.9	100.9	98.9	98.9
82.5°	71.3	70.3	70.3	68.3	69.3
85°	43.8	42.8	42.8	41.8	42.8
87.5°	21.4	20.4	20.4	19.4	20.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)