

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: P231766

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P231766
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-1-40-X-0048-1-U-DD-1-W
Description: DEFINE 5 LED LINEAR REGRESSED 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: 2810.3 lumens
Efficiency: N/A
Efficacy: 100.7 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

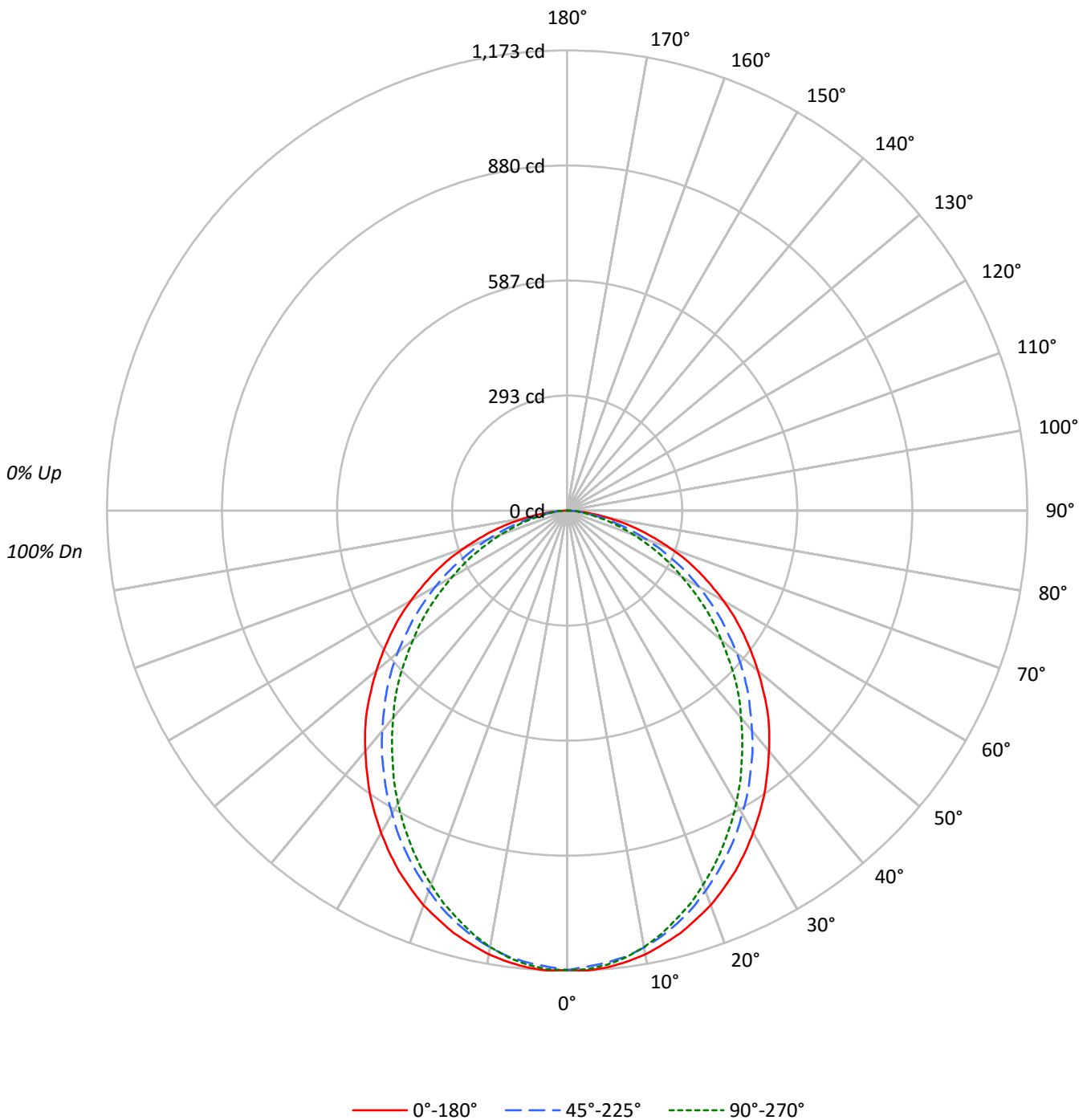
Input Watts (W): 27.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	8253	8253	8253
5°	8268	8181	8221
10°	8220	8092	8083
15°	8136	7939	7858
20°	8027	7733	7607
25°	7887	7513	7321
30°	7716	7261	7015
35°	7551	7012	6675
40°	7365	6746	6344
45°	7197	6483	6025
50°	6959	6186	5622
55°	6740	5847	5241
60°	6486	5460	4765
65°	6198	4984	4294
70°	5744	4430	3715
75°	5181	3719	3109
80°	4318	2861	2406
85°	3080	2353	2264



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.2	3.9
10°-20°	308.1	11.0
20°-30°	448.1	15.9
30°-40°	513.9	18.3
40°-50°	505.7	18.0
50°-60°	429.8	15.3
60°-70°	303.8	10.8
70°-80°	154.0	5.5
80°-90°	36.7	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°	866.4	30.8
0°-40°	1380.3	49.1
0°-60°	2315.7	82.4
0°-90°	2810.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2810.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1171	1171	1171	1171	1171	
5°	1169	1166	1157	1163	1162	111
15°	1115	1108	1088	1084	1077	314
25°	1014	998	966	952	942	467
35°	878	855	815	790	776	549
45°	722	694	650	615	605	556
55°	549	518	476	440	427	490
65°	372	342	299	270	258	367
75°	190	168	137	119	114	201
85°	38	32	29	28	28	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1171.2	1171.2	1171.2	1171.2	1171.2
2.5°	1173.4	1171.2	1163.3	1171.2	1170.0
5°	1168.9	1165.6	1156.6	1163.3	1162.2
7.5°	1160.0	1156.6	1146.5	1151.0	1148.8
10°	1148.8	1144.3	1130.9	1133.1	1129.7
12.5°	1132.0	1127.5	1111.8	1110.7	1106.2
15°	1115.2	1108.5	1088.3	1083.8	1077.1
17.5°	1092.8	1084.9	1062.6	1055.8	1049.1
20°	1070.4	1059.2	1031.2	1024.5	1014.4
22.5°	1042.4	1029.0	999.9	989.8	979.7
25°	1014.4	997.6	966.3	951.7	941.6
27.5°	981.9	966.3	931.6	912.5	902.4
30°	948.3	929.3	892.4	873.3	862.1
32.5°	913.6	892.4	855.4	830.8	820.7
35°	877.8	855.4	815.1	790.5	775.9
37.5°	838.6	815.1	775.9	747.9	733.4
40°	800.6	775.9	733.4	704.3	689.7
42.5°	762.5	736.7	690.8	660.6	649.4
45°	722.2	694.2	650.5	614.7	604.6
47.5°	677.4	651.6	608.0	573.3	557.6
50°	634.8	608.0	564.3	529.6	512.8
52.5°	591.2	565.4	518.4	484.8	471.4
55°	548.6	518.4	475.9	440.0	426.6
57.5°	506.1	474.7	431.1	397.5	380.7
60°	460.2	429.9	387.4	353.8	338.1
62.5°	414.3	386.3	344.9	312.4	298.9
65°	371.7	341.5	298.9	269.8	257.5
67.5°	326.9	300.1	257.5	229.5	218.3
70°	278.8	255.3	215.0	189.2	180.3
72.5°	234.0	210.5	175.8	153.4	145.6
75°	190.3	167.9	136.6	118.7	114.2
77.5°	146.7	128.8	101.9	87.3	84.0
80°	106.4	94.1	70.5	62.7	59.3
82.5°	69.4	59.3	47.0	44.8	43.7
85°	38.1	32.5	29.1	28.0	28.0
87.5°	13.4	14.6	13.4	13.4	13.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)