

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: P334437

Luminaire Tested: **S125RDS-S850D940-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334437
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125RDS-S850D940-4F0-1E-UDD-F
Description: DEFINE 5 REGRESSED DIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
PENDANT/SURFACE/WALL MOUNT, 850 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2789.4 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Direct

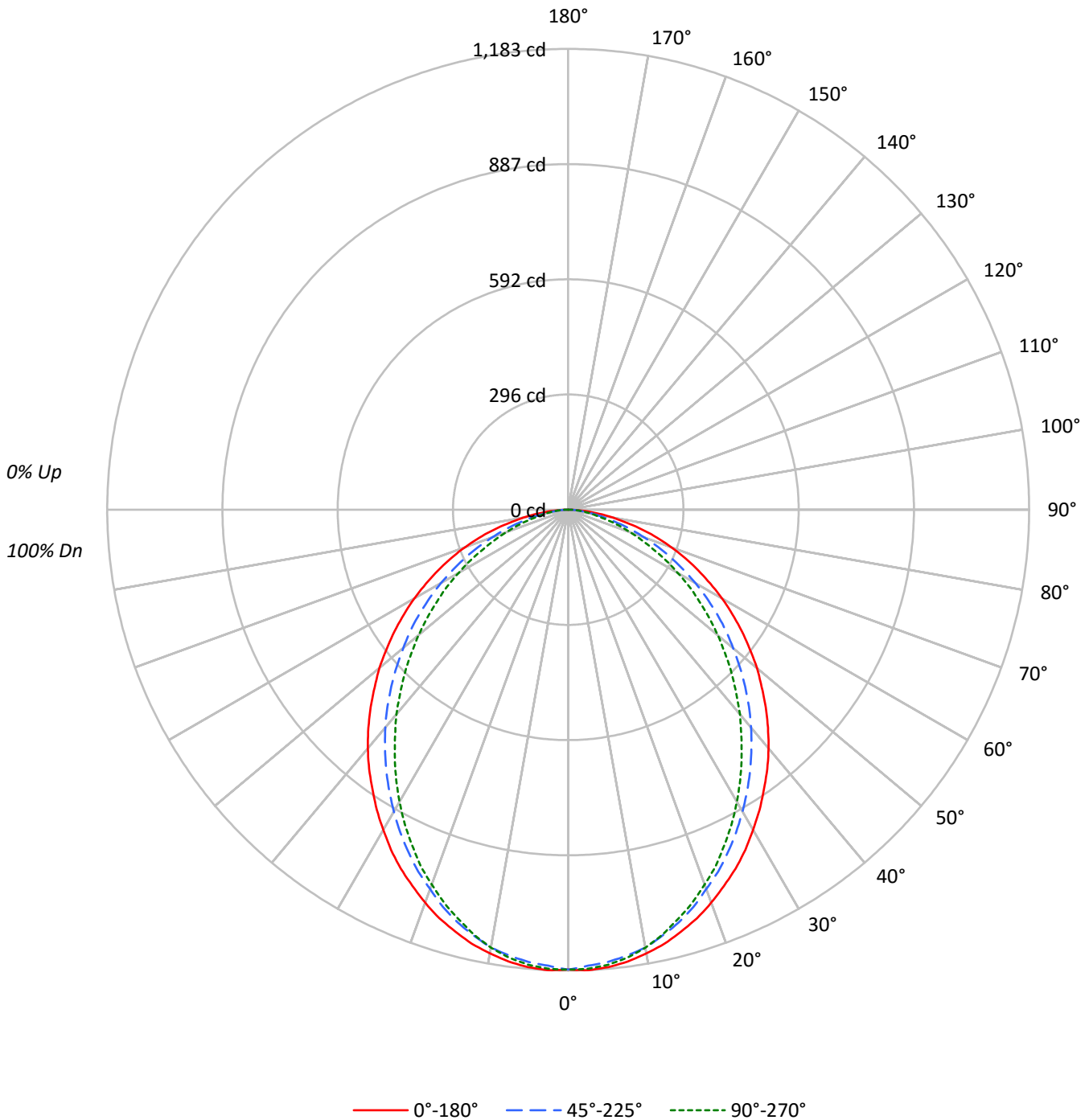
Input Watts (W): 26.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	98	90	84	79	87	82	78	84	79	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33
9	58	45	37	32	57	45	37	32	44	37	32	42	36	31	41	36	31	29
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7625	7625	7625
5°	7642	7556	7602
10°	7584	7485	7485
15°	7495	7333	7274
20°	7379	7122	7036
25°	7244	6914	6761
30°	7076	6670	6457
35°	6904	6419	6117
40°	6744	6157	5781
45°	6548	5864	5416
50°	6352	5546	5035
55°	6124	5241	4629
60°	5898	4872	4193
65°	5628	4442	3694
70°	5321	3907	3182
75°	4896	3294	2648
80°	4311	2589	2220
85°	3631	2112	1986



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.1	4.0
10°-20°	310.5	11.1
20°-30°	450.3	16.1
30°-40°	513.0	18.4
40°-50°	500.0	17.9
50°-60°	420.8	15.1
60°-70°	294.9	10.6
70°-80°	151.2	5.4
80°-90°	37.7	1.4
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°	871.9	31.3
0°-40°	1384.9	49.6
0°-60°	2305.7	82.7
0°-90°	2789.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2789.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1181	1181	1181	1181	1181	
5°	1179	1175	1166	1174	1173	112
15°	1121	1116	1097	1096	1088	316
25°	1017	1003	970	959	949	468
35°	876	854	814	788	776	548
45°	717	691	642	606	593	553
55°	544	515	466	425	411	486
65°	368	338	291	255	242	365
75°	196	169	132	112	106	207
85°	49	33	28	28	27	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1180.6	1180.6	1180.6	1180.6	1180.6
2.5°	1183.3	1180.6	1171.7	1180.6	1179.7
5°	1178.8	1175.3	1165.5	1174.4	1172.6
7.5°	1169.9	1166.4	1154.8	1161.9	1160.1
10°	1156.5	1153.9	1141.4	1144.1	1141.4
12.5°	1141.4	1137.8	1120.0	1121.8	1117.3
15°	1120.9	1115.5	1096.8	1095.9	1087.9
17.5°	1099.5	1091.5	1069.2	1064.7	1058.5
20°	1073.6	1064.7	1036.2	1031.7	1023.7
22.5°	1045.1	1036.2	1005.8	996.0	989.8
25°	1016.6	1003.2	970.2	958.6	948.8
27.5°	984.4	968.4	933.6	918.5	908.7
30°	948.8	931.8	894.4	873.9	865.9
32.5°	914.0	893.5	855.2	832.0	821.3
35°	875.7	854.3	814.1	788.3	775.8
37.5°	839.1	813.2	772.2	741.9	729.4
40°	799.9	773.1	730.3	696.4	685.7
42.5°	758.8	731.2	686.6	654.5	637.6
45°	716.9	691.1	642.0	606.4	593.0
47.5°	673.2	646.5	597.4	560.9	545.7
50°	632.2	602.8	552.0	514.5	501.1
52.5°	587.6	557.3	510.1	469.0	455.7
55°	543.9	515.4	465.5	425.3	411.1
57.5°	499.4	469.0	420.9	381.7	369.2
60°	456.6	425.3	377.2	338.0	324.6
62.5°	411.1	381.7	332.6	296.9	283.6
65°	368.3	338.0	290.7	255.0	241.7
67.5°	325.5	295.2	249.7	215.8	205.1
70°	281.8	251.5	206.9	179.2	168.5
72.5°	239.0	209.6	168.5	143.6	137.3
75°	196.2	169.4	132.0	112.4	106.1
77.5°	152.5	131.1	99.9	84.7	79.4
80°	115.9	94.5	69.6	61.5	59.7
82.5°	80.3	61.5	46.4	43.7	42.8
85°	49.0	33.0	28.5	27.6	26.8
87.5°	20.5	14.3	13.4	13.4	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)