

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: P243657

Luminaire Tested: **S125DR-H850D940-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243657
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-51)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DR-H850D940-X4F0-XX-UDD-F-W
Description: DEFINE 5 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2929.3 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.39' x L: 3.88' x H: 0')
CIE Type: Direct

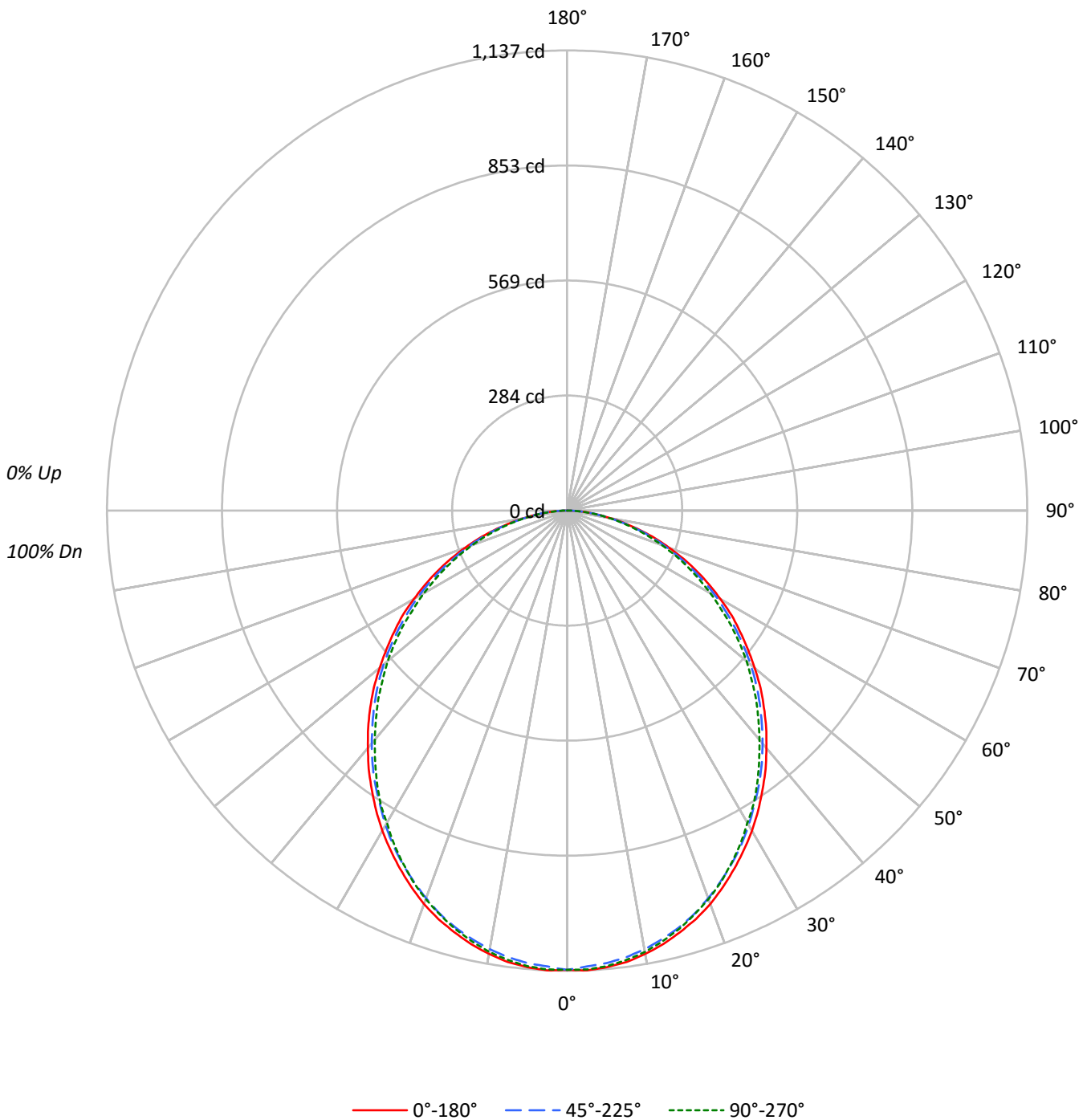
Input Watts (W): 23.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8065	8065	8065
5°	8078	8007	8061
10°	8027	7944	7991
15°	7933	7847	7872
20°	7821	7708	7727
25°	7659	7548	7535
30°	7495	7366	7311
35°	7303	7173	7109
40°	7107	6968	6859
45°	6912	6762	6636
50°	6683	6546	6398
55°	6458	6282	6118
60°	6213	6036	5822
65°	5923	5713	5516
70°	5555	5347	5172
75°	5121	4962	4731
80°	4465	4429	4326
85°	3874	3874	3670



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.0	3.7
10°-20°	302.1	10.3
20°-30°	445.4	15.2
30°-40°	518.6	17.7
40°-50°	519.7	17.7
50°-60°	454.3	15.5
60°-70°	337.2	11.5
70°-80°	191.2	6.5
80°-90°	53.6	1.8
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°	854.5	29.2
0°-40°	1373.2	46.9
0°-60°	2347.2	80.1
0°-90°	2929.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2929.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1135	1135	1135	1135	1135	
5°	1132	1131	1122	1131	1130	107
15°	1078	1076	1066	1072	1070	304
25°	977	973	962	965	961	450
35°	842	837	827	822	819	527
45°	688	686	673	663	660	530
55°	521	520	507	496	494	467
65°	352	350	340	332	328	349
75°	186	183	181	177	172	198
85°	48	48	48	46	45	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1134.8	1134.8	1134.8	1134.8	1134.8
2.5°	1137.3	1135.6	1127.3	1135.6	1134.8
5°	1132.3	1130.6	1122.3	1130.6	1129.8
7.5°	1124.8	1122.3	1113.2	1121.5	1119.8
10°	1112.3	1110.7	1100.7	1107.3	1107.3
12.5°	1097.3	1094.8	1084.8	1090.7	1089.8
15°	1078.2	1076.5	1066.5	1072.4	1069.9
17.5°	1058.2	1054.0	1044.9	1049.9	1046.5
20°	1034.1	1030.7	1019.1	1023.2	1021.6
22.5°	1006.6	1002.4	991.6	994.1	993.3
25°	976.6	973.3	962.5	965.0	960.8
27.5°	945.8	941.6	931.7	931.7	927.5
30°	913.3	909.2	897.5	897.5	890.9
32.5°	878.4	875.0	860.9	860.0	858.4
35°	841.7	836.7	826.7	821.8	819.3
37.5°	805.1	800.9	790.1	783.5	779.3
40°	766.0	763.5	751.0	745.2	739.3
42.5°	727.7	725.2	711.9	701.9	699.4
45°	687.7	686.0	672.7	662.7	660.2
47.5°	647.7	646.1	632.8	621.9	617.8
50°	604.4	604.4	592.0	581.1	578.6
52.5°	562.8	562.0	549.5	538.7	536.2
55°	521.2	520.4	507.0	496.2	493.7
57.5°	482.1	477.1	465.4	457.1	448.8
60°	437.1	434.6	424.6	413.8	409.6
62.5°	395.5	392.1	382.2	373.0	367.2
65°	352.2	349.7	339.7	332.2	328.0
67.5°	311.4	308.1	298.1	292.2	288.9
70°	267.3	264.8	257.3	249.8	248.9
72.5°	228.1	224.8	220.6	214.0	210.6
75°	186.5	183.2	180.7	177.3	172.3
77.5°	146.5	144.9	143.2	140.7	138.2
80°	109.1	109.1	108.2	106.6	105.7
82.5°	77.4	78.3	75.8	74.1	74.1
85°	47.5	47.5	47.5	45.8	45.0
87.5°	23.3	20.8	20.8	19.1	19.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)