

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: P243652

Luminaire Tested: **S125DR-H850D935-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243652
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-H850D935-X4F0-XX-UDD-F-W
Description: DEFINE 5 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2828.4 lumens
Efficiency: N/A
Efficacy: 119.8 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

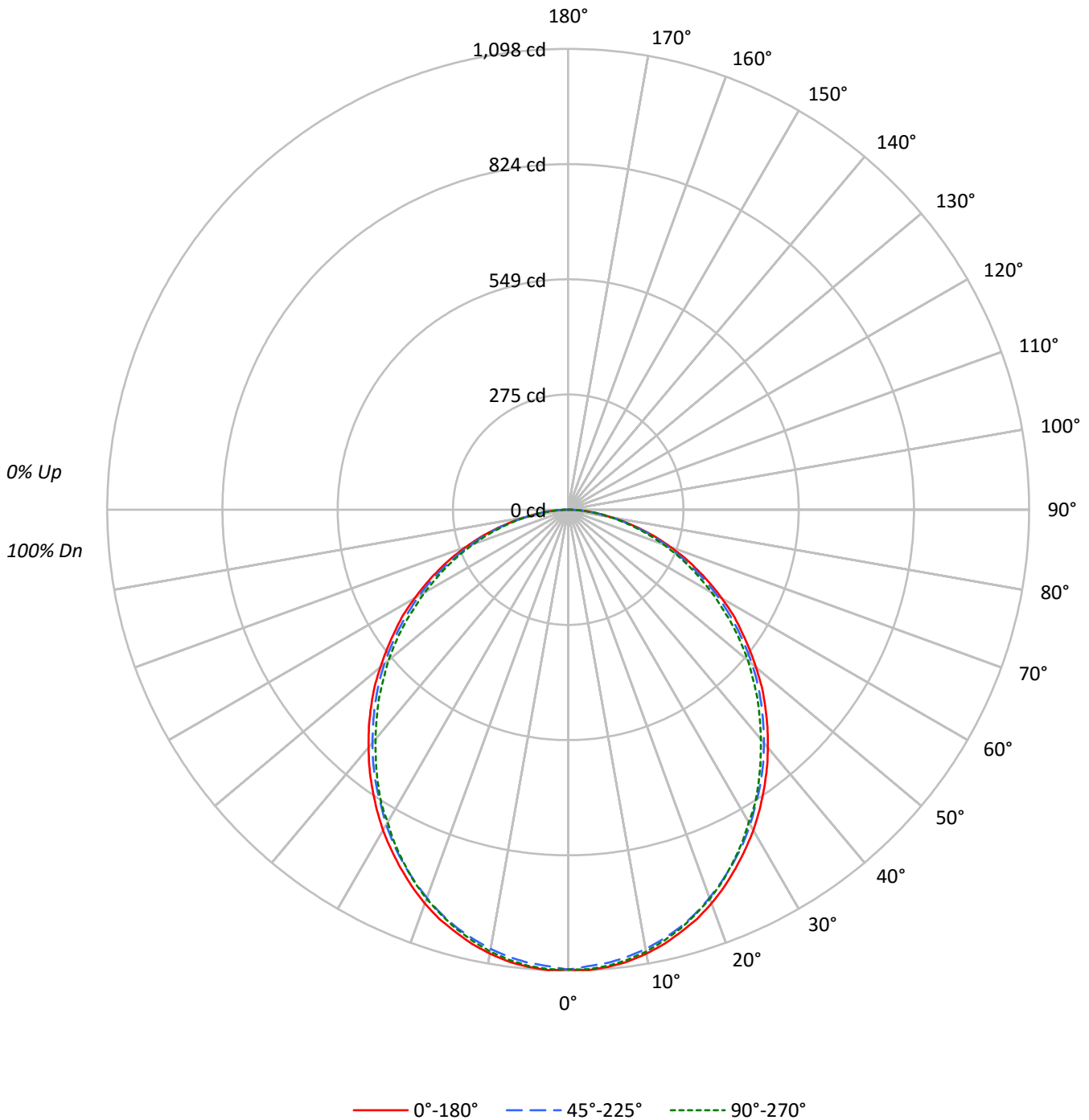
Input Watts (W): 23.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7788	7788	7788
5°	7800	7732	7783
10°	7751	7670	7716
15°	7660	7577	7601
20°	7551	7442	7461
25°	7395	7288	7275
30°	7238	7112	7060
35°	7051	6926	6863
40°	6862	6727	6624
45°	6674	6529	6408
50°	6453	6320	6178
55°	6235	6067	5907
60°	5999	5828	5622
65°	5718	5516	5326
70°	5363	5162	4996
75°	4946	4789	4569
80°	4310	4277	4179
85°	3735	3735	3539



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.4	3.7
10°-20°	291.7	10.3
20°-30°	430.0	15.2
30°-40°	500.8	17.7
40°-50°	501.8	17.7
50°-60°	438.7	15.5
60°-70°	325.6	11.5
70°-80°	184.7	6.5
80°-90°	51.8	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°	825.1	29.2
0°-40°	1325.9	46.9
0°-60°	2266.4	80.1
0°-90°	2828.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2828.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1096	1096	1096	1096	1096	
5°	1093	1092	1084	1092	1091	104
15°	1041	1039	1030	1035	1033	294
25°	943	940	929	932	928	434
35°	813	808	798	793	791	509
45°	664	662	650	640	638	512
55°	503	502	490	479	477	451
65°	340	338	328	321	317	337
75°	180	177	174	171	166	191
85°	46	46	46	44	43	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1095.7	1095.7	1095.7	1095.7	1095.7
2.5°	1098.1	1096.5	1088.5	1096.5	1095.7
5°	1093.3	1091.7	1083.7	1091.7	1090.9
7.5°	1086.1	1083.7	1074.8	1082.9	1081.2
10°	1074.0	1072.4	1062.8	1069.2	1069.2
12.5°	1059.5	1057.1	1047.5	1053.1	1052.3
15°	1041.1	1039.4	1029.8	1035.4	1033.0
17.5°	1021.8	1017.7	1008.9	1013.7	1010.5
20°	998.4	995.2	984.0	988.0	986.4
22.5°	971.9	967.9	957.4	959.9	959.1
25°	943.0	939.8	929.3	931.7	927.7
27.5°	913.2	909.2	899.6	899.6	895.5
30°	881.9	877.9	866.6	866.6	860.2
32.5°	848.1	844.9	831.2	830.4	828.8
35°	812.7	807.9	798.3	793.4	791.0
37.5°	777.4	773.4	762.9	756.5	752.5
40°	739.6	737.2	725.1	719.5	713.9
42.5°	702.6	700.2	687.3	677.7	675.3
45°	664.0	662.4	649.6	639.9	637.5
47.5°	625.4	623.8	611.0	600.5	596.5
50°	583.6	583.6	571.6	561.1	558.7
52.5°	543.4	542.6	530.6	520.1	517.7
55°	503.2	502.4	489.6	479.1	476.7
57.5°	465.5	460.6	449.4	441.3	433.3
60°	422.0	419.6	410.0	399.5	395.5
62.5°	381.9	378.6	369.0	360.1	354.5
65°	340.0	337.6	328.0	320.8	316.7
67.5°	300.7	297.4	287.8	282.2	279.0
70°	258.1	255.6	248.4	241.2	240.4
72.5°	220.3	217.1	213.0	206.6	203.4
75°	180.1	176.9	174.4	171.2	166.4
77.5°	141.5	139.9	138.3	135.9	133.4
80°	105.3	105.3	104.5	102.9	102.1
82.5°	74.8	75.6	73.2	71.5	71.5
85°	45.8	45.8	45.8	44.2	43.4
87.5°	22.5	20.1	20.1	18.5	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)