

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: P243648

Luminaire Tested: **S125DR-H1090D930-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243648
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-H1090D930-X4F0-XX-UDD-F-W
Description: DEFINE 5 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3453.9 lumens
Efficiency: N/A
Efficacy: 109.6 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

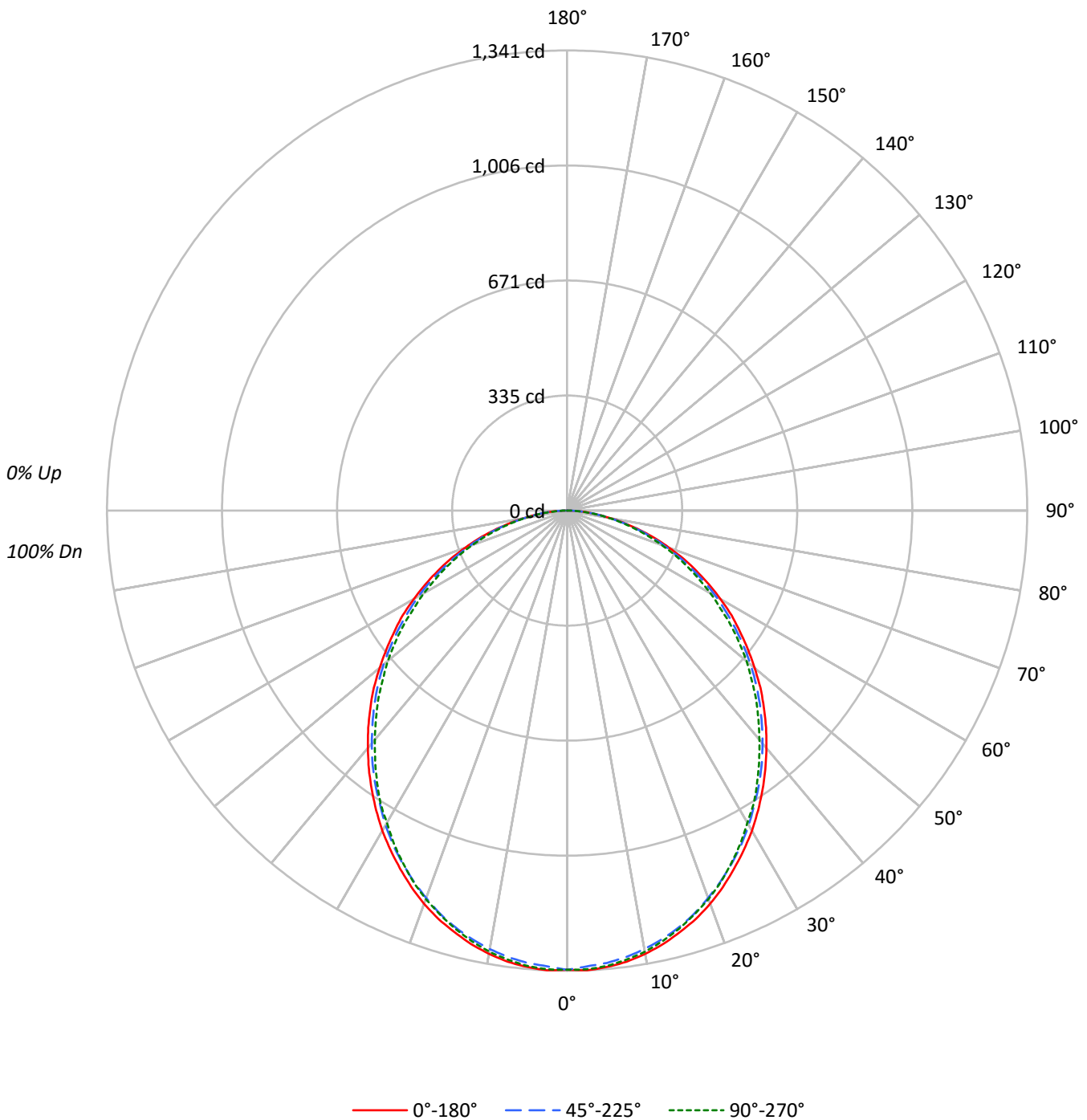
Input Watts (W): 31.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	9510	9510	9510
5°	9525	9441	9505
10°	9466	9366	9423
15°	9354	9254	9282
20°	9222	9088	9110
25°	9030	8899	8884
30°	8838	8685	8620
35°	8611	8458	8381
40°	8380	8216	8089
45°	8151	7973	7825
50°	7880	7718	7544
55°	7614	7409	7213
60°	7326	7117	6866
65°	6984	6735	6505
70°	6548	6303	6099
75°	6039	5849	5580
80°	5264	5223	5104
85°	4567	4567	4322



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.2	3.7
10°-20°	356.2	10.3
20°-30°	525.1	15.2
30°-40°	611.5	17.7
40°-50°	612.8	17.7
50°-60°	535.7	15.5
60°-70°	397.6	11.5
70°-80°	225.5	6.5
80°-90°	63.2	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°	1007.6	29.2
0°-40°	1619.1	46.9
0°-60°	2767.6	80.1
0°-90°	3453.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3453.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1338	1338	1338	1338	1338	
5°	1335	1333	1323	1333	1332	127
15°	1271	1269	1258	1264	1262	359
25°	1152	1148	1135	1138	1133	531
35°	992	987	975	969	966	621
45°	811	809	793	781	778	625
55°	614	614	598	585	582	550
65°	415	412	400	392	387	412
75°	220	216	213	209	203	233
85°	56	56	56	54	53	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1338.1	1338.1	1338.1	1338.1	1338.1
2.5°	1341.0	1339.0	1329.2	1339.0	1338.1
5°	1335.1	1333.2	1323.3	1333.2	1332.2
7.5°	1326.3	1323.3	1312.5	1322.4	1320.4
10°	1311.6	1309.6	1297.8	1305.7	1305.7
12.5°	1293.9	1290.9	1279.2	1286.0	1285.0
15°	1271.3	1269.3	1257.6	1264.4	1261.5
17.5°	1247.7	1242.8	1232.0	1237.9	1234.0
20°	1219.3	1215.3	1201.6	1206.5	1204.5
22.5°	1186.9	1182.0	1169.2	1172.2	1171.2
25°	1151.5	1147.6	1134.8	1137.8	1132.9
27.5°	1115.2	1110.3	1098.5	1098.5	1093.6
30°	1076.9	1072.0	1058.3	1058.3	1050.4
32.5°	1035.7	1031.8	1015.1	1014.1	1012.1
35°	992.5	986.6	974.8	968.9	966.0
37.5°	949.3	944.4	931.6	923.8	918.9
40°	903.2	900.2	885.5	878.6	871.8
42.5°	858.0	855.1	839.4	827.6	824.6
45°	810.9	808.9	793.2	781.4	778.5
47.5°	763.8	761.8	746.1	733.3	728.4
50°	712.7	712.7	698.0	685.2	682.3
52.5°	663.6	662.6	647.9	635.2	632.2
55°	614.5	613.6	597.9	585.1	582.1
57.5°	568.4	562.5	548.8	539.0	529.1
60°	515.4	512.4	500.7	487.9	483.0
62.5°	466.3	462.4	450.6	439.8	432.9
65°	415.3	412.3	400.5	391.7	386.8
67.5°	367.2	363.2	351.4	344.6	340.7
70°	315.1	312.2	303.3	294.5	293.5
72.5°	269.0	265.1	260.2	252.3	248.4
75°	219.9	216.0	213.0	209.1	203.2
77.5°	172.8	170.8	168.9	165.9	163.0
80°	128.6	128.6	127.6	125.7	124.7
82.5°	91.3	92.3	89.3	87.4	87.4
85°	56.0	56.0	56.0	54.0	53.0
87.5°	27.5	24.5	24.5	22.6	22.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)