

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: P243629

Luminaire Tested: **S125DR-H1090D927-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243629
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-H1090D927-X4F0-XX-UDD-F-W
Description: DEFINE 5 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3356.0 lumens
Efficiency: N/A
Efficacy: 106.5 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

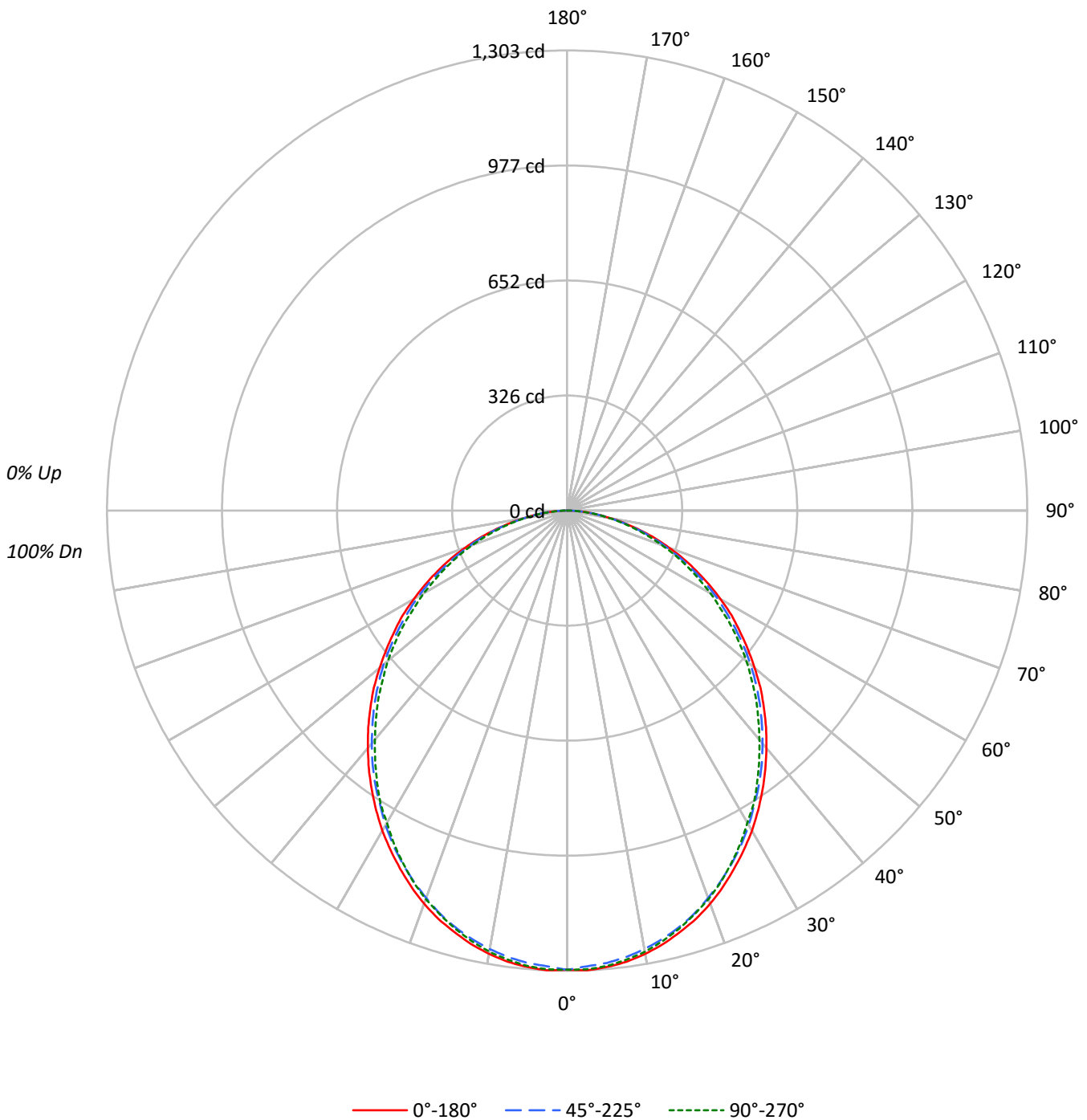
Input Watts (W): 31.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	9240	9240	9240
5°	9256	9174	9235
10°	9197	9101	9155
15°	9089	8991	9019
20°	8960	8830	8852
25°	8775	8647	8633
30°	8588	8439	8376
35°	8368	8218	8144
40°	8142	7983	7858
45°	7919	7747	7603
50°	7657	7499	7330
55°	7399	7198	7009
60°	7119	6915	6671
65°	6786	6545	6320
70°	6363	6124	5927
75°	5868	5684	5423
80°	5116	5075	4957
85°	4436	4436	4200



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.6	3.7
10°-20°	346.1	10.3
20°-30°	510.2	15.2
30°-40°	594.2	17.7
40°-50°	595.4	17.7
50°-60°	520.5	15.5
60°-70°	386.3	11.5
70°-80°	219.1	6.5
80°-90°	61.4	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°	979.0	29.2
0°-40°	1573.2	46.9
0°-60°	2689.2	80.1
0°-90°	3356.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3356.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1300	1300	1300	1300	1300	
5°	1297	1295	1286	1295	1294	123
15°	1235	1233	1222	1229	1226	348
25°	1119	1115	1103	1106	1101	516
35°	964	959	947	942	939	603
45°	788	786	771	759	756	608
55°	597	596	581	568	566	535
65°	404	401	389	381	376	400
75°	214	210	207	203	198	226
85°	54	54	54	52	52	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1300.1	1300.1	1300.1	1300.1	1300.1
2.5°	1303.0	1301.1	1291.5	1301.1	1300.1
5°	1297.3	1295.4	1285.8	1295.4	1294.4
7.5°	1288.7	1285.8	1275.3	1284.9	1283.0
10°	1274.4	1272.5	1261.0	1268.6	1268.6
12.5°	1257.2	1254.3	1242.9	1249.6	1248.6
15°	1235.3	1233.4	1221.9	1228.6	1225.7
17.5°	1212.4	1207.6	1197.1	1202.8	1199.0
20°	1184.7	1180.9	1167.5	1172.3	1170.4
22.5°	1153.2	1148.5	1136.1	1138.9	1138.0
25°	1118.9	1115.1	1102.7	1105.5	1100.8
27.5°	1083.6	1078.8	1067.4	1067.4	1062.6
30°	1046.4	1041.6	1028.3	1028.3	1020.6
32.5°	1006.3	1002.5	986.3	985.3	983.4
35°	964.4	958.6	947.2	941.5	938.6
37.5°	922.4	917.6	905.2	897.6	892.8
40°	877.6	874.7	860.4	853.7	847.0
42.5°	833.7	830.8	815.6	804.1	801.2
45°	787.9	786.0	770.7	759.3	756.4
47.5°	742.1	740.2	724.9	712.5	707.8
50°	692.5	692.5	678.2	665.8	662.9
52.5°	644.8	643.9	629.6	617.2	614.3
55°	597.1	596.2	580.9	568.5	565.6
57.5°	552.3	546.6	533.2	523.7	514.1
60°	500.8	497.9	486.5	474.1	469.3
62.5°	453.1	449.3	437.8	427.3	420.7
65°	403.5	400.6	389.2	380.6	375.8
67.5°	356.7	352.9	341.5	334.8	331.0
70°	306.2	303.3	294.7	286.2	285.2
72.5°	261.4	257.5	252.8	245.1	241.3
75°	213.7	209.9	207.0	203.2	197.5
77.5°	167.9	166.0	164.1	161.2	158.3
80°	125.0	125.0	124.0	122.1	121.1
82.5°	88.7	89.7	86.8	84.9	84.9
85°	54.4	54.4	54.4	52.5	51.5
87.5°	26.7	23.8	23.8	21.9	21.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)