

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: P242769

Luminaire Tested: **S125DR-S1090D927-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242769
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DR-S1090D927-X4F0-XX-UDD-F-W
Description: DEFINE 5 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3323.5 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular (W 0.39' x L: 3.88' x H: 0')
CIE Type: Direct

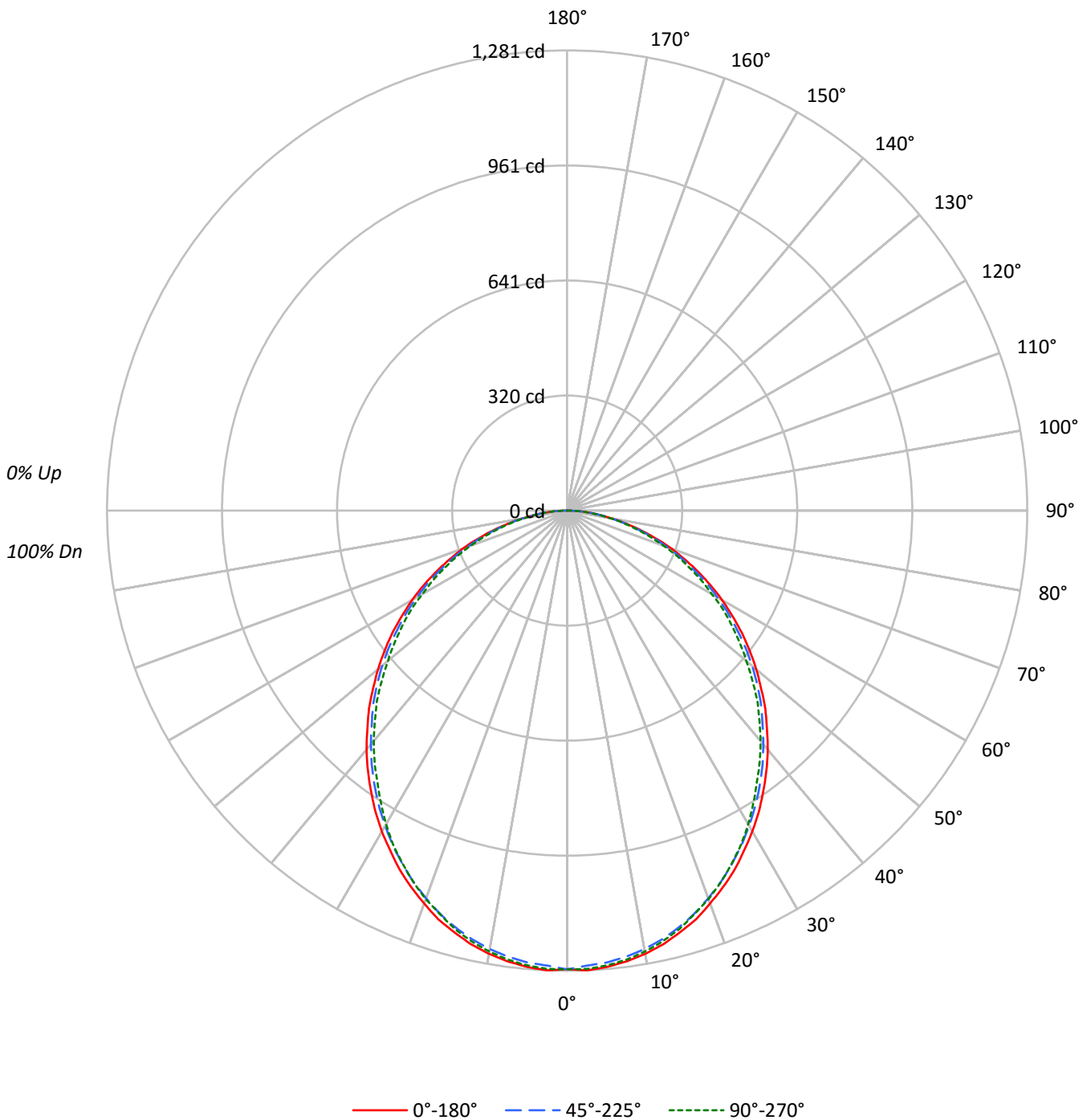
Input Watts (W): 34.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	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	72	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9075	9075	9075
5°	9096	9009	9067
10°	9041	8945	8997
15°	8942	8839	8875
20°	8802	8687	8703
25°	8651	8509	8501
30°	8465	8316	8274
35°	8265	8108	7994
40°	8061	7883	7770
45°	7839	7676	7524
50°	7596	7428	7205
55°	7360	7147	6948
60°	7079	6864	6620
65°	6745	6523	6303
70°	6423	6130	5920
75°	5855	5660	5465
80°	5210	5128	5002
85°	4534	4616	4363



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.5	3.6
10°-20°	340.4	10.2
20°-30°	502.5	15.1
30°-40°	586.2	17.6
40°-50°	588.8	17.7
50°-60°	516.9	15.6
60°-70°	385.0	11.6
70°-80°	219.9	6.6
80°-90°	63.5	1.9
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°	963.3	29.0
0°-40°	1549.6	46.6
0°-60°	2655.2	79.9
0°-90°	3323.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3323.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1277	1277	1277	1277	1277	
5°	1275	1273	1263	1272	1271	121
15°	1215	1212	1201	1206	1206	343
25°	1103	1098	1085	1087	1084	508
35°	953	949	934	929	921	596
45°	780	776	764	752	749	601
55°	594	591	577	568	561	530
65°	401	399	388	379	375	398
75°	213	211	206	203	199	227
85°	56	57	57	56	54	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1276.9	1276.9	1276.9	1276.9	1276.9
2.5°	1281.0	1277.9	1267.8	1277.9	1276.9
5°	1274.9	1272.9	1262.8	1271.9	1270.9
7.5°	1265.8	1263.8	1252.7	1261.8	1260.8
10°	1252.7	1250.7	1239.5	1247.6	1246.6
12.5°	1236.5	1232.5	1222.4	1228.4	1228.4
15°	1215.3	1212.3	1201.2	1206.2	1206.2
17.5°	1193.1	1188.0	1176.9	1183.0	1177.9
20°	1163.8	1161.8	1148.6	1155.7	1150.6
22.5°	1134.5	1130.4	1118.3	1122.4	1119.3
25°	1103.2	1098.1	1085.0	1087.0	1084.0
27.5°	1066.8	1063.8	1050.6	1051.6	1048.6
30°	1031.4	1028.4	1013.3	1011.2	1008.2
32.5°	993.1	988.0	974.9	970.8	964.8
35°	952.6	948.6	934.5	929.4	921.3
37.5°	911.2	906.2	893.0	886.0	880.9
40°	868.8	863.7	849.6	840.5	837.5
42.5°	823.3	819.3	805.2	797.1	792.0
45°	779.9	775.9	763.7	751.6	748.6
47.5°	732.4	733.4	718.3	706.1	699.1
50°	687.0	683.9	671.8	658.7	651.6
52.5°	640.5	638.5	625.3	614.2	606.1
55°	594.0	591.0	576.8	567.7	560.7
57.5°	544.5	543.5	531.4	519.3	516.2
60°	498.0	494.0	482.9	472.8	465.7
62.5°	449.6	446.5	437.4	426.3	421.3
65°	401.1	399.0	387.9	378.8	374.8
67.5°	353.6	349.5	341.5	333.4	331.4
70°	309.1	304.1	295.0	288.9	284.9
72.5°	260.6	257.6	252.6	245.5	241.4
75°	213.2	211.1	206.1	203.1	199.0
77.5°	168.7	167.7	164.7	162.6	159.6
80°	127.3	127.3	125.3	124.3	122.2
82.5°	90.9	88.9	88.9	86.9	86.9
85°	55.6	56.6	56.6	55.6	53.5
87.5°	27.3	27.3	26.3	26.3	24.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)