

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: P243732

Luminaire Tested: **S125RDR-H1090D927-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243732
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-66)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125RDR-H1090D927-X4F0-XX-UDD-F-W
Description: DEFINE 5 REGRESSED 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: 3187.4 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.12 / 1.26
Luminous Opening: Rectangular (W 0.39' x L: 3.88' x H: 0')
CIE Type: Direct

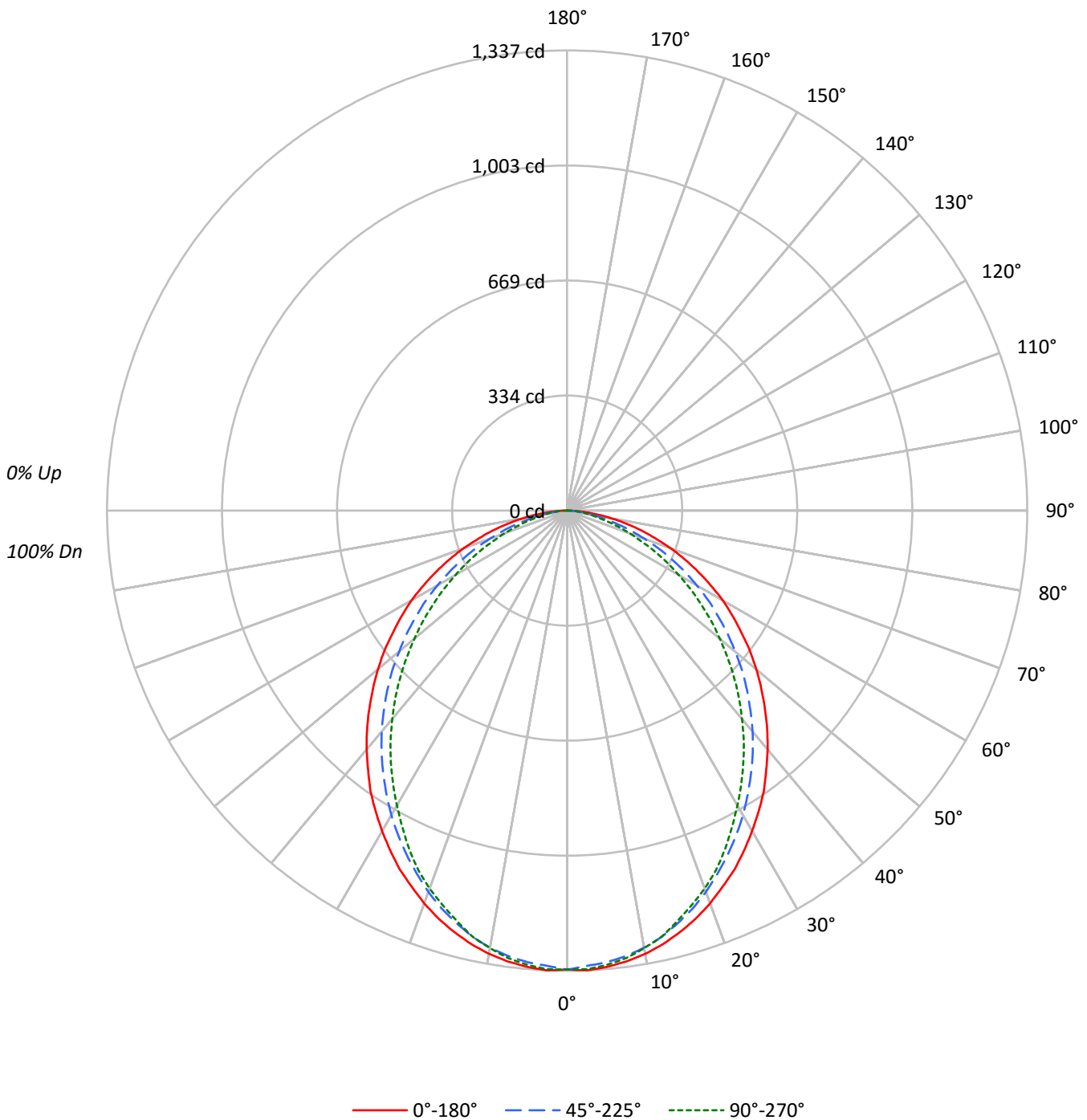
Input Watts (W): 31.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	32
9	58	45	37	32	57	45	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9478	9478	9478
5°	9493	9398	9452
10°	9438	9307	9314
15°	9328	9131	9089
20°	9184	8917	8838
25°	9022	8655	8513
30°	8822	8384	8118
35°	8640	8086	7746
40°	8408	7779	7328
45°	8169	7430	6893
50°	7931	7046	6402
55°	7648	6619	5886
60°	7417	6183	5329
65°	7058	5662	4716
70°	6660	4956	4023
75°	6129	4138	3273
80°	5386	3201	2693
85°	4591	2642	2487



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.6	3.9
10°-20°	351.8	11.0
20°-30°	511.9	16.1
30°-40°	586.3	18.4
40°-50°	573.7	18.0
50°-60°	484.4	15.2
60°-70°	339.1	10.6
70°-80°	172.2	5.4
80°-90°	42.4	1.3
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°	989.4	31.0
0°-40°	1575.7	49.4
0°-60°	2633.7	82.6
0°-90°	3187.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3187.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1334	1334	1334	1334	1334	
5°	1331	1328	1317	1326	1325	126
15°	1268	1263	1241	1240	1235	357
25°	1150	1137	1104	1092	1086	529
35°	996	972	932	904	893	622
45°	813	786	739	700	686	627
55°	617	590	534	491	475	554
65°	420	387	337	295	280	416
75°	223	196	151	126	119	236
85°	56	36	32	30	30	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1333.5	1333.5	1333.5	1333.5	1333.5
2.5°	1337.3	1334.5	1324.0	1333.5	1333.5
5°	1330.6	1327.8	1317.3	1325.9	1324.9
7.5°	1321.1	1318.2	1305.8	1314.4	1311.6
10°	1307.8	1303.9	1289.6	1294.4	1290.6
12.5°	1289.6	1285.8	1268.6	1270.5	1268.6
15°	1267.7	1262.9	1241.0	1240.0	1235.3
17.5°	1242.9	1236.2	1212.4	1209.5	1201.9
20°	1214.3	1205.7	1179.0	1173.3	1168.5
22.5°	1181.8	1173.3	1141.8	1133.2	1130.3
25°	1150.4	1137.0	1103.6	1092.2	1085.5
27.5°	1113.2	1097.9	1063.6	1048.3	1036.9
30°	1075.0	1057.8	1021.6	1001.6	989.2
32.5°	1035.9	1015.9	976.8	952.0	941.5
35°	995.8	972.0	931.9	904.3	892.8
37.5°	950.1	926.2	886.1	853.7	843.2
40°	906.2	881.4	838.4	803.2	789.8
42.5°	860.4	834.6	787.9	750.7	739.2
45°	812.7	786.0	739.2	700.1	685.8
47.5°	765.0	738.3	689.6	650.5	632.4
50°	717.3	688.7	637.2	597.1	579.0
52.5°	669.6	638.1	587.6	544.7	528.4
55°	617.2	590.4	534.2	491.2	475.0
57.5°	570.4	540.8	487.4	443.5	425.4
60°	521.8	489.3	435.0	392.0	374.9
62.5°	470.3	437.8	385.4	342.4	327.2
65°	419.7	387.3	336.7	294.7	280.4
67.5°	369.1	338.6	288.1	249.0	232.7
70°	320.5	289.0	238.5	203.2	193.6
72.5°	269.0	244.2	193.6	162.2	154.5
75°	223.2	195.5	150.7	125.9	119.2
77.5°	176.5	149.8	111.6	94.4	88.7
80°	131.6	108.7	78.2	67.7	65.8
82.5°	90.6	68.7	51.5	49.6	48.6
85°	56.3	36.2	32.4	30.5	30.5
87.5°	23.8	15.3	15.3	14.3	15.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)