

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: P242872

Luminaire Tested: **S125RDR-S1090D927-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242872
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125RDR-S1090D927-X4F0-XX-UDD-F-W
Description: DEFINE 5 REGRESSED 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: 3160.1 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 3.88' x H: 0')
CIE Type: Direct

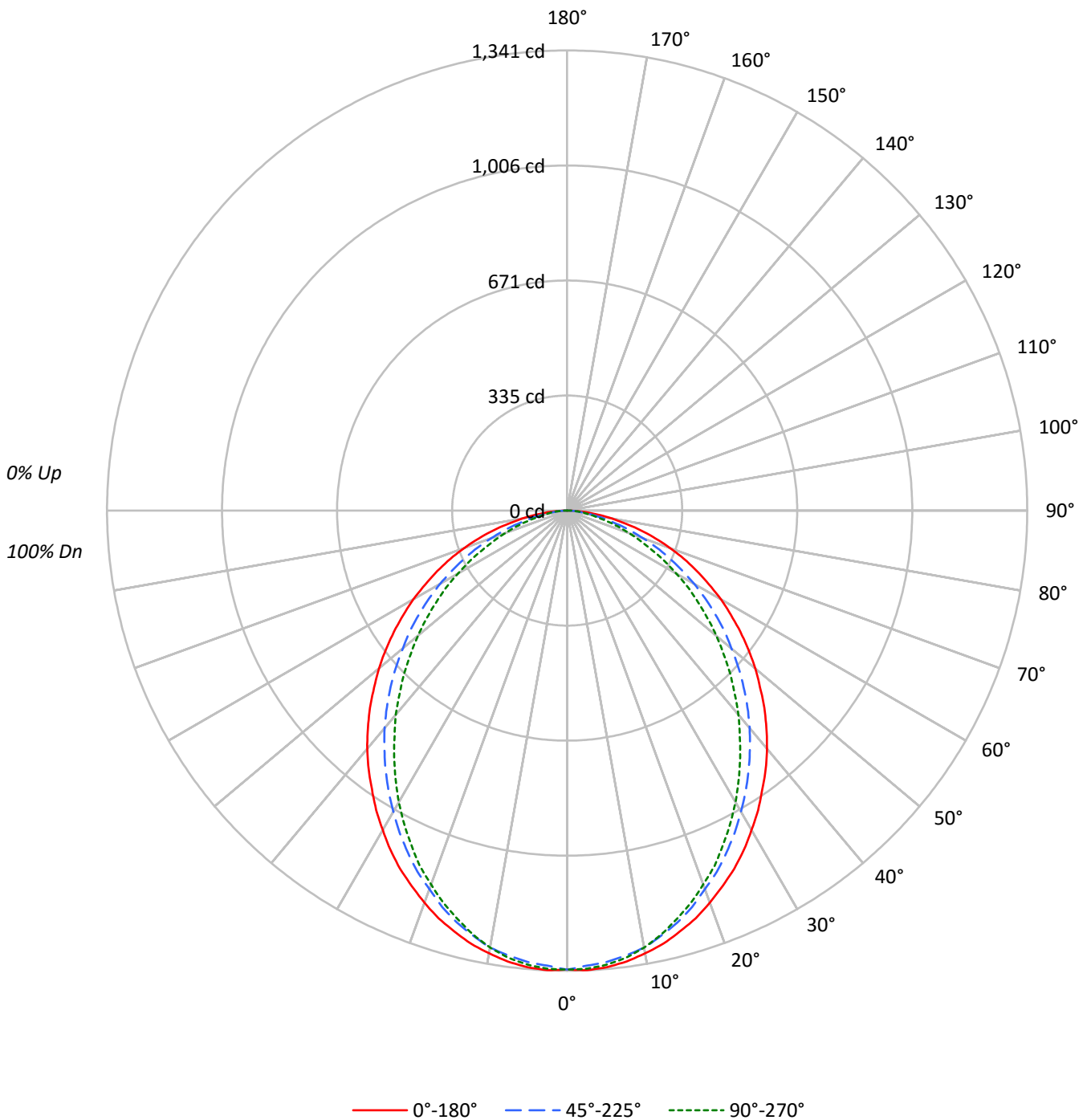
Input Watts (W): 34.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P242872

CATALOG NUMBER: S125RDR-S1090D927-X4F0-XX-UDD-F-W

Luminous Intensity Polar Plot





TEST NUMBER: P242872

CATALOG NUMBER: S125RDR-S1090D927-X4F0-XX-UDD-F-W

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	98	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	64	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	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33
9	58	45	37	32	57	45	37	32	44	37	32	42	36	31	41	36	31	29
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9506	9506	9506
5°	9528	9420	9477
10°	9456	9332	9332
15°	9344	9143	9069
20°	9199	8879	8771
25°	9032	8619	8429
30°	8822	8316	8050
35°	8607	8002	7626
40°	8408	7677	7208
45°	8164	7311	6752
50°	7920	6914	6277
55°	7636	6534	5771
60°	7352	6074	5227
65°	7016	5538	4605
70°	6633	4871	3967
75°	6102	4105	3301
80°	5374	3225	2771
85°	4534	2634	2471



TEST NUMBER: P242872

CATALOG NUMBER: S125RDR-S1090D927-X4F0-XX-UDD-F-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.9	4.0
10°-20°	351.8	11.1
20°-30°	510.1	16.1
30°-40°	581.1	18.4
40°-50°	566.5	17.9
50°-60°	476.7	15.1
60°-70°	334.1	10.6
70°-80°	171.2	5.4
80°-90°	42.7	1.4
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°	987.8	31.3
0°-40°	1568.9	49.6
0°-60°	2612.1	82.7
0°-90°	3160.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3160.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1338	1338	1338	1338	1338	
5°	1336	1332	1320	1330	1328	127
15°	1270	1264	1243	1242	1232	358
25°	1152	1136	1099	1086	1075	530
35°	992	968	922	893	879	621
45°	812	783	727	687	672	626
55°	616	584	527	482	466	551
65°	417	383	329	289	274	413
75°	222	192	150	127	120	235
85°	56	37	32	31	30	64
90°	0	0	0	0	0	



TEST NUMBER: P242872

CATALOG NUMBER: S125RDR-S1090D927-X4F0-XX-UDD-F-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1337.5	1337.5	1337.5	1337.5	1337.5
2.5°	1340.6	1337.5	1327.4	1337.5	1336.5
5°	1335.5	1331.5	1320.4	1330.5	1328.4
7.5°	1325.4	1321.4	1308.2	1316.3	1314.3
10°	1310.3	1307.2	1293.1	1296.1	1293.1
12.5°	1293.1	1289.0	1268.8	1270.9	1265.8
15°	1269.9	1263.8	1242.6	1241.6	1232.5
17.5°	1245.6	1236.5	1211.3	1206.2	1199.1
20°	1216.3	1206.2	1173.9	1168.8	1159.7
22.5°	1184.0	1173.9	1139.5	1128.4	1121.4
25°	1151.7	1136.5	1099.1	1086.0	1074.9
27.5°	1115.3	1097.1	1057.7	1040.5	1029.4
30°	1074.9	1055.7	1013.3	990.0	980.9
32.5°	1035.5	1012.2	968.8	942.5	930.4
35°	992.0	967.8	922.3	893.0	878.9
37.5°	950.6	921.3	874.9	840.5	826.4
40°	906.2	875.9	827.4	789.0	776.9
42.5°	859.7	828.4	777.9	741.5	722.3
45°	812.2	782.9	727.4	687.0	671.8
47.5°	762.7	732.4	676.9	635.4	618.3
50°	716.3	682.9	625.3	582.9	567.7
52.5°	665.7	631.4	577.8	531.4	516.2
55°	616.2	583.9	527.3	481.9	465.7
57.5°	565.7	531.4	476.8	432.4	418.2
60°	517.2	481.9	427.3	382.9	367.7
62.5°	465.7	432.4	376.8	336.4	321.3
65°	417.2	382.9	329.3	288.9	273.8
67.5°	368.7	334.4	282.9	244.5	232.4
70°	319.2	284.9	234.4	203.1	190.9
72.5°	270.7	237.4	190.9	162.6	155.6
75°	222.2	191.9	149.5	127.3	120.2
77.5°	172.7	148.5	113.1	96.0	89.9
80°	131.3	107.1	78.8	69.7	67.7
82.5°	90.9	69.7	52.5	49.5	48.5
85°	55.6	37.4	32.3	31.3	30.3
87.5°	23.2	16.2	15.2	15.2	14.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)