

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: P243630

Luminaire Tested: **S125DR-H1270D927-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243630
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-H1270D927-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: 3920.5 lumens
Efficiency: N/A
Efficacy: 104.0 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

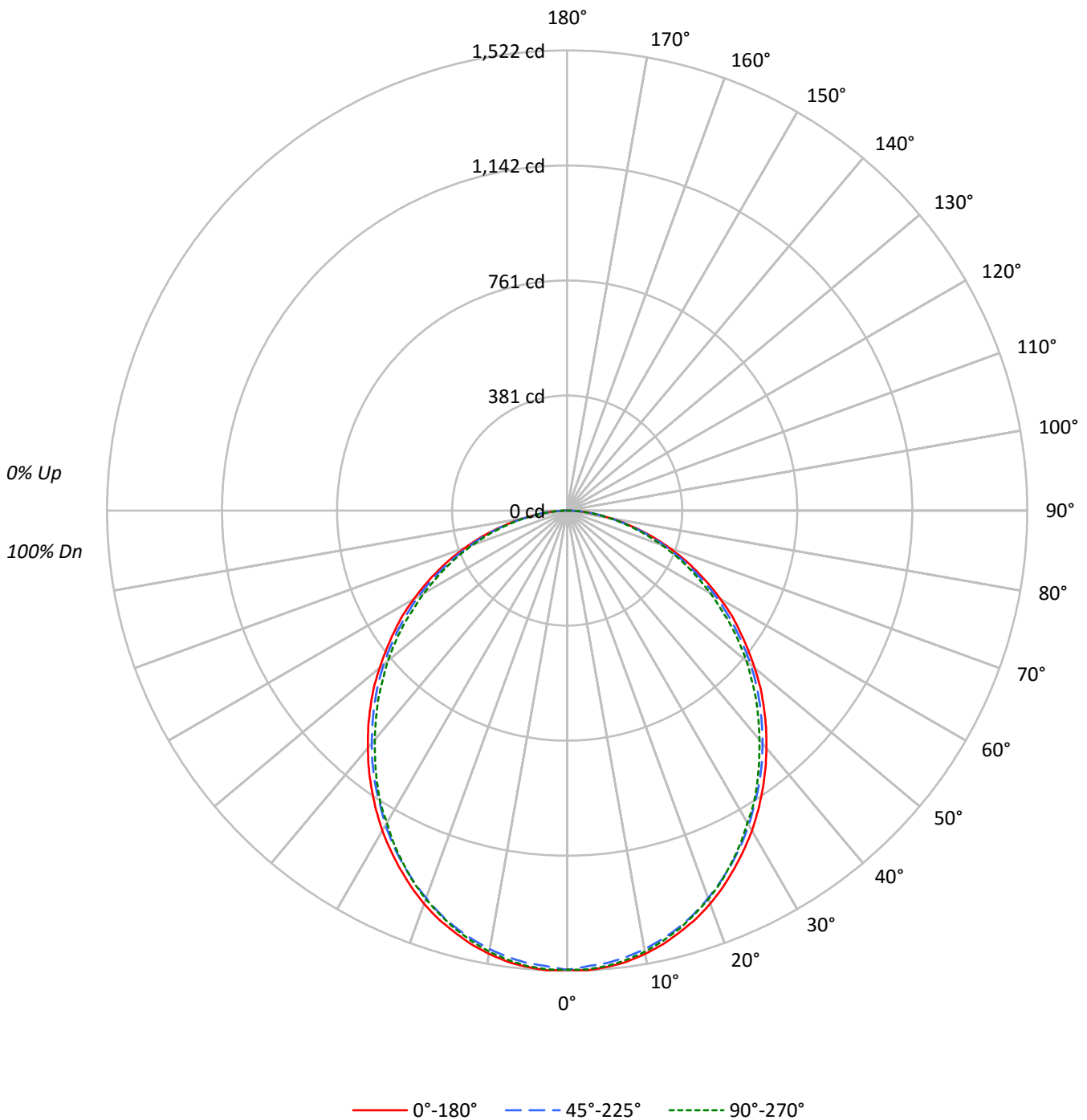
Input Watts (W): 37.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P243630

CATALOG NUMBER: S125DR-H1270D927-X4F0-XX-UDD-F-W

Luminous Intensity Polar Plot





TEST NUMBER: P243630

CATALOG NUMBER: S125DR-H1270D927-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	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°	10795	10795	10795
5°	10812	10717	10788
10°	10744	10631	10696
15°	10618	10503	10536
20°	10468	10316	10341
25°	10250	10101	10084
30°	10032	9858	9785
35°	9775	9601	9514
40°	9512	9325	9181
45°	9251	9050	8881
50°	8945	8761	8563
55°	8644	8409	8188
60°	8316	8078	7792
65°	7926	7645	7383
70°	7433	7155	6924
75°	6854	6640	6335
80°	5976	5931	5792
85°	5178	5178	4909



TEST NUMBER: P243630

CATALOG NUMBER: S125DR-H1270D927-X4F0-XX-UDD-F-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.3	3.7
10°-20°	404.3	10.3
20°-30°	596.1	15.2
30°-40°	694.2	17.7
40°-50°	695.6	17.7
50°-60°	608.1	15.5
60°-70°	451.3	11.5
70°-80°	255.9	6.5
80°-90°	71.8	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°	1143.7	29.2
0°-40°	1837.8	46.9
0°-60°	3141.5	80.1
0°-90°	3920.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3920.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1519	1519	1519	1519	1519	
5°	1515	1513	1502	1513	1512	144
15°	1443	1441	1427	1435	1432	407
25°	1307	1303	1288	1292	1286	602
35°	1127	1120	1106	1100	1096	705
45°	920	918	900	887	884	710
55°	698	696	679	664	661	625
65°	471	468	455	445	439	467
75°	250	245	242	237	231	264
85°	64	64	64	61	60	74
90°	0	0	0	0	0	



TEST NUMBER: P243630

CATALOG NUMBER: S125DR-H1270D927-X4F0-XX-UDD-F-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1518.8	1518.8	1518.8	1518.8	1518.8
2.5°	1522.1	1519.9	1508.8	1519.9	1518.8
5°	1515.4	1513.2	1502.1	1513.2	1512.1
7.5°	1505.4	1502.1	1489.8	1501.0	1498.7
10°	1488.7	1486.5	1473.1	1482.0	1482.0
12.5°	1468.6	1465.3	1451.9	1459.7	1458.6
15°	1443.0	1440.8	1427.4	1435.2	1431.9
17.5°	1416.3	1410.7	1398.4	1405.1	1400.7
20°	1384.0	1379.5	1363.9	1369.5	1367.2
22.5°	1347.2	1341.6	1327.1	1330.5	1329.4
25°	1307.1	1302.6	1288.1	1291.5	1285.9
27.5°	1265.8	1260.3	1246.9	1246.9	1241.3
30°	1222.4	1216.8	1201.2	1201.2	1192.3
32.5°	1175.6	1171.1	1152.2	1151.1	1148.8
35°	1126.6	1119.9	1106.5	1099.8	1096.5
37.5°	1077.5	1072.0	1057.5	1048.6	1043.0
40°	1025.2	1021.8	1005.1	997.3	989.5
42.5°	973.9	970.6	952.7	939.4	936.0
45°	920.4	918.2	900.4	887.0	883.6
47.5°	866.9	864.7	846.9	832.4	826.8
50°	809.0	809.0	792.3	777.8	774.4
52.5°	753.3	752.2	735.4	721.0	717.6
55°	697.6	696.4	678.6	664.1	660.8
57.5°	645.2	638.5	622.9	611.8	600.6
60°	585.0	581.7	568.3	553.8	548.2
62.5°	529.3	524.8	511.5	499.2	491.4
65°	471.3	468.0	454.6	444.6	439.0
67.5°	416.7	412.3	398.9	391.1	386.7
70°	357.7	354.3	344.3	334.3	333.2
72.5°	305.3	300.9	295.3	286.4	281.9
75°	249.6	245.1	241.8	237.3	230.7
77.5°	196.1	193.9	191.7	188.3	185.0
80°	146.0	146.0	144.9	142.6	141.5
82.5°	103.6	104.7	101.4	99.2	99.2
85°	63.5	63.5	63.5	61.3	60.2
87.5°	31.2	27.9	27.9	25.6	25.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)