

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: P243649

Luminaire Tested: **S125DR-H1270D930-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243649
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-H1270D930-X4F0-XX-UDD-F-W
Description: DEFINE 5 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4034.9 lumens
Efficiency: N/A
Efficacy: 107.0 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

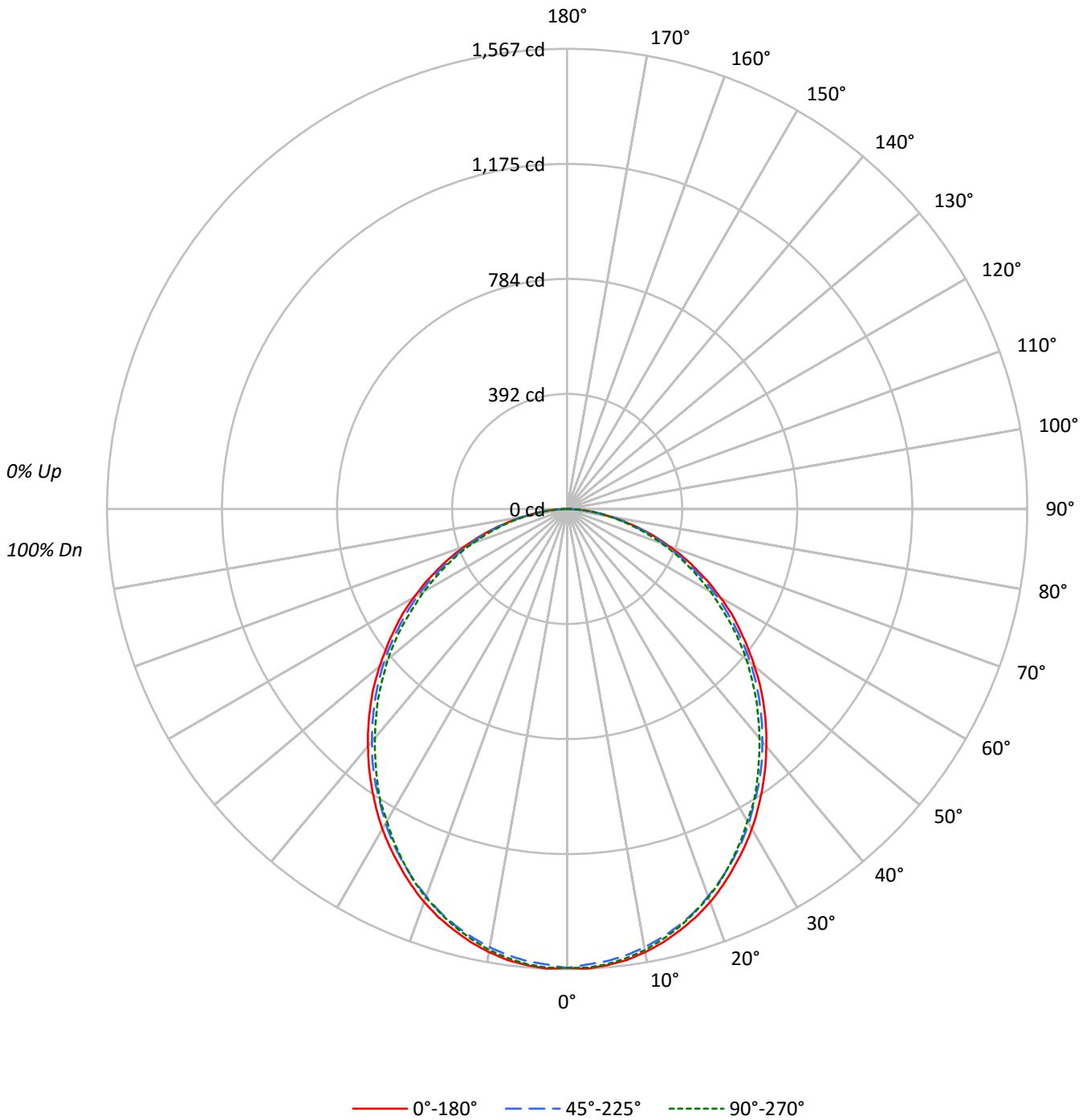
Input Watts (W): 37.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	11109	11109	11109
5°	11128	11029	11103
10°	11057	10942	11008
15°	10927	10810	10844
20°	10773	10617	10643
25°	10549	10396	10378
30°	10325	10146	10071
35°	10059	9881	9791
40°	9789	9597	9449
45°	9522	9314	9141
50°	9206	9016	8812
55°	8896	8654	8427
60°	8559	8314	8020
65°	8158	7869	7598
70°	7649	7365	7126
75°	7055	6835	6519
80°	6148	6103	5959
85°	5333	5333	5048



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.5	3.7
10°-20°	416.1	10.3
20°-30°	613.5	15.2
30°-40°	714.4	17.7
40°-50°	715.9	17.7
50°-60°	625.8	15.5
60°-70°	464.4	11.5
70°-80°	263.4	6.5
80°-90°	73.9	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°	1177.1	29.2
0°-40°	1891.5	46.9
0°-60°	3233.1	80.1
0°-90°	4034.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4034.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1563	1563	1563	1563	1563	
5°	1560	1557	1546	1557	1556	148
15°	1485	1483	1469	1477	1474	419
25°	1345	1341	1326	1329	1323	620
35°	1159	1152	1139	1132	1128	725
45°	947	945	927	913	909	731
55°	718	717	698	684	680	643
65°	485	482	468	458	452	481
75°	257	252	249	244	237	272
85°	65	65	65	63	62	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1563.1	1563.1	1563.1	1563.1	1563.1
2.5°	1566.6	1564.3	1552.8	1564.3	1563.1
5°	1559.7	1557.4	1545.9	1557.4	1556.2
7.5°	1549.3	1545.9	1533.3	1544.8	1542.5
10°	1532.1	1529.9	1516.1	1525.3	1525.3
12.5°	1511.5	1508.1	1494.3	1502.3	1501.2
15°	1485.1	1482.8	1469.1	1477.1	1473.7
17.5°	1457.6	1451.9	1439.3	1446.1	1441.5
20°	1424.3	1419.8	1403.7	1409.4	1407.1
22.5°	1386.5	1380.8	1365.9	1369.3	1368.2
25°	1345.2	1340.6	1325.7	1329.2	1323.4
27.5°	1302.8	1297.0	1283.3	1283.3	1277.6
30°	1258.1	1252.3	1236.3	1236.3	1227.1
32.5°	1209.9	1205.3	1185.8	1184.7	1182.4
35°	1159.4	1152.5	1138.8	1131.9	1128.5
37.5°	1109.0	1103.2	1088.3	1079.2	1073.4
40°	1055.1	1051.6	1034.4	1026.4	1018.4
42.5°	1002.3	998.9	980.5	966.8	963.3
45°	947.3	945.0	926.6	912.9	909.4
47.5°	892.2	889.9	871.6	856.7	850.9
50°	832.6	832.6	815.4	800.5	797.0
52.5°	775.2	774.1	756.9	742.0	738.5
55°	717.9	716.8	698.4	683.5	680.1
57.5°	664.0	657.1	641.1	629.6	618.1
60°	602.1	598.6	584.9	570.0	564.2
62.5°	544.7	540.2	526.4	513.8	505.7
65°	485.1	481.7	467.9	457.6	451.8
67.5°	428.9	424.3	410.6	402.5	397.9
70°	368.1	364.7	354.4	344.0	342.9
72.5°	314.2	309.6	303.9	294.7	290.1
75°	256.9	252.3	248.9	244.3	237.4
77.5°	201.8	199.5	197.3	193.8	190.4
80°	150.2	150.2	149.1	146.8	145.6
82.5°	106.7	107.8	104.4	102.1	102.1
85°	65.4	65.4	65.4	63.1	61.9
87.5°	32.1	28.7	28.7	26.4	26.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)