

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: P242789

Luminaire Tested: **S125DR-S1270D930-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242789
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-S1270D930-X4F0-XX-UDD-F-W
Description: DEFINE 5 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3975.3 lumens
Efficiency: N/A
Efficacy: 96.7 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

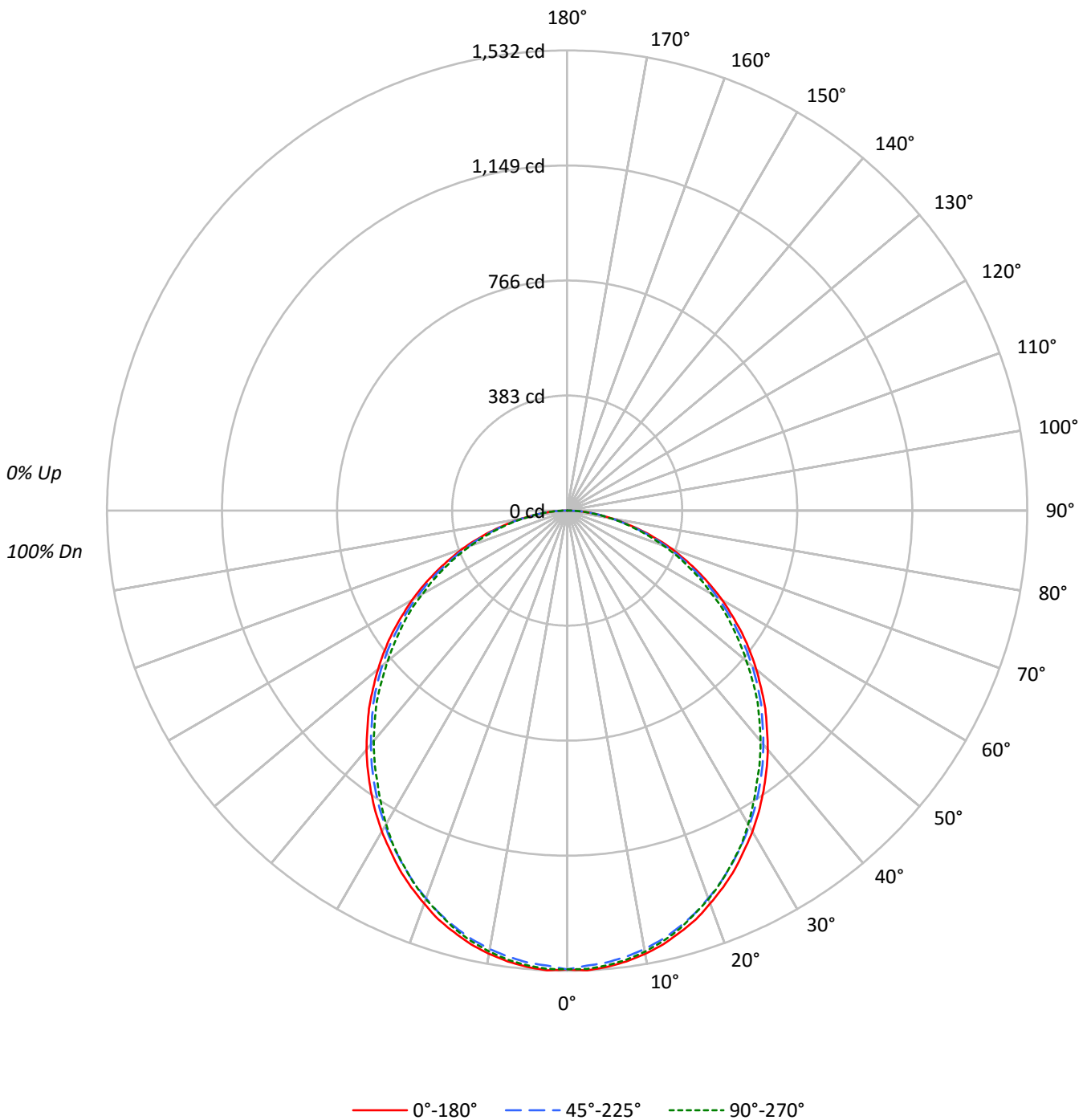
Input Watts (W): 41.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P242789

CATALOG NUMBER: S125DR-S1270D930-X4F0-XX-UDD-F-W

Luminous Intensity Polar Plot





TEST NUMBER: P242789

CATALOG NUMBER: S125DR-S1270D930-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	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°	10855	10855	10855
5°	10879	10776	10845
10°	10813	10700	10761
15°	10696	10571	10616
20°	10528	10391	10410
25°	10348	10177	10167
30°	10125	9947	9897
35°	9887	9698	9561
40°	9642	9428	9294
45°	9376	9182	9000
50°	9086	8884	8618
55°	8804	8550	8310
60°	8468	8210	7918
65°	8067	7803	7539
70°	7685	7331	7082
75°	7002	6769	6536
80°	6234	6131	5984
85°	5423	5521	5219



TEST NUMBER: P242789

CATALOG NUMBER: S125DR-S1270D930-X4F0-XX-UDD-F-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.1	3.6
10°-20°	407.1	10.2
20°-30°	601.0	15.1
30°-40°	701.2	17.6
40°-50°	704.2	17.7
50°-60°	618.2	15.6
60°-70°	460.5	11.6
70°-80°	263.0	6.6
80°-90°	75.9	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°	1152.2	29.0
0°-40°	1853.4	46.6
0°-60°	3175.9	79.9
0°-90°	3975.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3975.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1527	1527	1527	1527	1527	
5°	1525	1522	1510	1521	1520	145
15°	1454	1450	1437	1443	1443	410
25°	1320	1314	1298	1300	1296	607
35°	1140	1135	1118	1112	1102	713
45°	933	928	914	899	895	719
55°	710	707	690	679	671	634
65°	480	477	464	453	448	476
75°	255	252	246	243	238	271
85°	66	68	68	66	64	77
90°	0	0	0	0	0	



TEST NUMBER: P242789

CATALOG NUMBER: S125DR-S1270D930-X4F0-XX-UDD-F-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1527.3	1527.3	1527.3	1527.3	1527.3
2.5°	1532.2	1528.5	1516.5	1528.5	1527.3
5°	1524.9	1522.5	1510.4	1521.3	1520.1
7.5°	1514.0	1511.6	1498.3	1509.2	1508.0
10°	1498.3	1495.9	1482.6	1492.3	1491.1
12.5°	1479.0	1474.2	1462.1	1469.3	1469.3
15°	1453.6	1450.0	1436.7	1442.8	1442.8
17.5°	1427.0	1421.0	1407.7	1415.0	1408.9
20°	1392.0	1389.6	1373.9	1382.3	1376.3
22.5°	1357.0	1352.1	1337.6	1342.5	1338.8
25°	1319.5	1313.5	1297.8	1300.2	1296.5
27.5°	1276.0	1272.4	1256.7	1257.9	1254.3
30°	1233.7	1230.1	1212.0	1209.5	1205.9
32.5°	1187.8	1181.8	1166.0	1161.2	1154.0
35°	1139.5	1134.6	1117.7	1111.7	1102.0
37.5°	1089.9	1083.9	1068.2	1059.7	1053.7
40°	1039.2	1033.1	1016.2	1005.3	1001.7
42.5°	984.8	980.0	963.0	953.4	947.3
45°	932.8	928.0	913.5	899.0	895.4
47.5°	876.0	877.3	859.1	844.6	836.2
50°	821.7	818.0	803.5	787.8	779.4
52.5°	766.1	763.7	748.0	734.7	725.0
55°	710.5	706.9	690.0	679.1	670.6
57.5°	651.3	650.1	635.6	621.1	617.5
60°	595.7	590.9	577.6	565.5	557.0
62.5°	537.7	534.1	523.2	509.9	503.9
65°	479.7	477.3	464.0	453.1	448.3
67.5°	422.9	418.1	408.4	398.8	396.3
70°	369.8	363.7	352.8	345.6	340.8
72.5°	311.8	308.1	302.1	293.6	288.8
75°	255.0	252.5	246.5	242.9	238.0
77.5°	201.8	200.6	197.0	194.5	190.9
80°	152.3	152.3	149.8	148.6	146.2
82.5°	108.8	106.3	106.3	103.9	103.9
85°	66.5	67.7	67.7	66.5	64.0
87.5°	32.6	32.6	31.4	31.4	29.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)