

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: P242770

Luminaire Tested: **S125DR-S1270D927-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242770
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-S1270D927-X4F0-XX-UDD-F-W
Description: DEFINE 5 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: 3862.6 lumens
Efficiency: N/A
Efficacy: 94.0 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

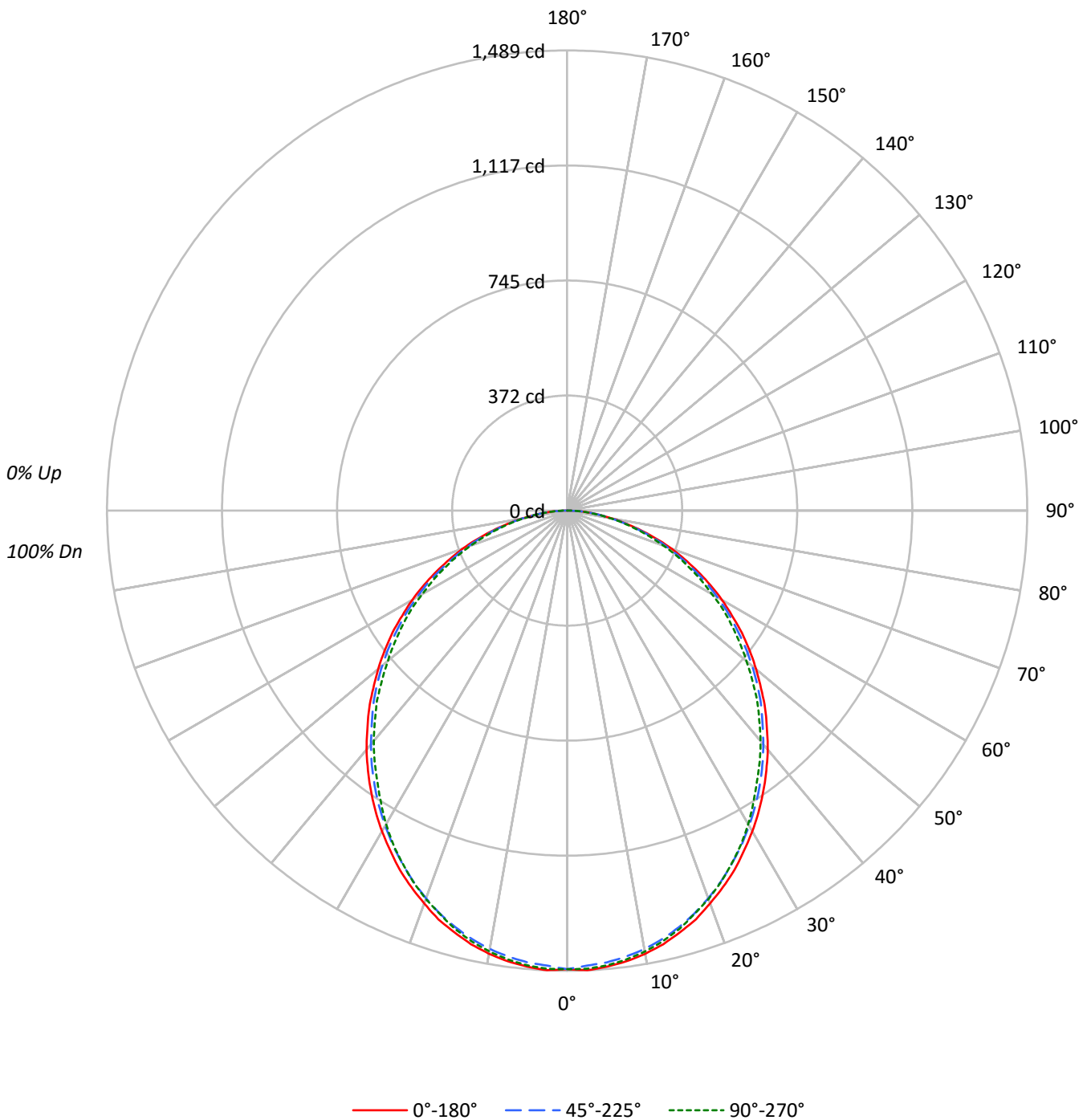
Input Watts (W): 41.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	10547	10547	10547
5°	10571	10471	10538
10°	10507	10397	10456
15°	10393	10272	10315
20°	10230	10096	10115
25°	10054	9889	9879
30°	9838	9664	9616
35°	9607	9423	9291
40°	9368	9161	9030
45°	9111	8922	8745
50°	8828	8633	8374
55°	8555	8307	8074
60°	8227	7977	7693
65°	7839	7581	7326
70°	7466	7124	6880
75°	6802	6577	6352
80°	6053	5959	5816
85°	5268	5358	5072



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.0	3.6
10°-20°	395.6	10.2
20°-30°	584.0	15.1
30°-40°	681.3	17.6
40°-50°	684.3	17.7
50°-60°	600.7	15.6
60°-70°	447.4	11.6
70°-80°	255.5	6.6
80°-90°	73.8	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°	1119.6	29.0
0°-40°	1800.9	46.6
0°-60°	3085.9	79.9
0°-90°	3862.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3862.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1484	1484	1484	1484	1484	
5°	1482	1479	1468	1478	1477	141
15°	1412	1409	1396	1402	1402	398
25°	1282	1276	1261	1263	1260	590
35°	1107	1102	1086	1080	1071	693
45°	906	902	888	874	870	698
55°	690	687	670	660	652	616
65°	466	464	451	440	436	462
75°	248	245	240	236	231	264
85°	65	66	66	65	62	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1484.0	1484.0	1484.0	1484.0	1484.0
2.5°	1488.7	1485.2	1473.5	1485.2	1484.0
5°	1481.7	1479.3	1467.6	1478.2	1477.0
7.5°	1471.1	1468.8	1455.9	1466.4	1465.2
10°	1455.9	1453.5	1440.6	1450.0	1448.8
12.5°	1437.1	1432.4	1420.6	1427.7	1427.7
15°	1412.4	1408.9	1396.0	1401.8	1401.8
17.5°	1386.6	1380.7	1367.8	1374.8	1369.0
20°	1352.5	1350.2	1334.9	1343.1	1337.3
22.5°	1318.5	1313.8	1299.7	1304.4	1300.9
25°	1282.1	1276.2	1261.0	1263.3	1259.8
27.5°	1239.8	1236.3	1221.0	1222.2	1218.7
30°	1198.7	1195.2	1177.6	1175.2	1171.7
32.5°	1154.1	1148.2	1133.0	1128.3	1121.2
35°	1107.2	1102.5	1086.0	1080.1	1070.8
37.5°	1059.0	1053.1	1037.9	1029.7	1023.8
40°	1009.7	1003.8	987.4	976.8	973.3
42.5°	956.9	952.2	935.7	926.3	920.5
45°	906.4	901.7	887.6	873.5	870.0
47.5°	851.2	852.4	834.8	820.7	812.5
50°	798.4	794.8	780.8	765.5	757.3
52.5°	744.4	742.0	726.8	713.8	704.4
55°	690.4	686.8	670.4	659.8	651.6
57.5°	632.8	631.7	617.6	603.5	600.0
60°	578.8	574.1	561.2	549.5	541.2
62.5°	522.5	518.9	508.4	495.5	489.6
65°	466.1	463.8	450.8	440.3	435.6
67.5°	410.9	406.2	396.8	387.4	385.1
70°	359.3	353.4	342.8	335.8	331.1
72.5°	302.9	299.4	293.5	285.3	280.6
75°	247.7	245.4	239.5	236.0	231.3
77.5°	196.1	194.9	191.4	189.0	185.5
80°	147.9	147.9	145.6	144.4	142.1
82.5°	105.7	103.3	103.3	101.0	101.0
85°	64.6	65.7	65.7	64.6	62.2
87.5°	31.7	31.7	30.5	30.5	28.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)