

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: P243136

Luminaire Tested: **S122DR-H675D935-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243136
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-48)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DR-H675D935-X4F0-XX-UDD-F-W
Description: DEFINE 2 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2219.5 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular (W 0.15' x L: 3.88' x H: 0')
CIE Type: Direct

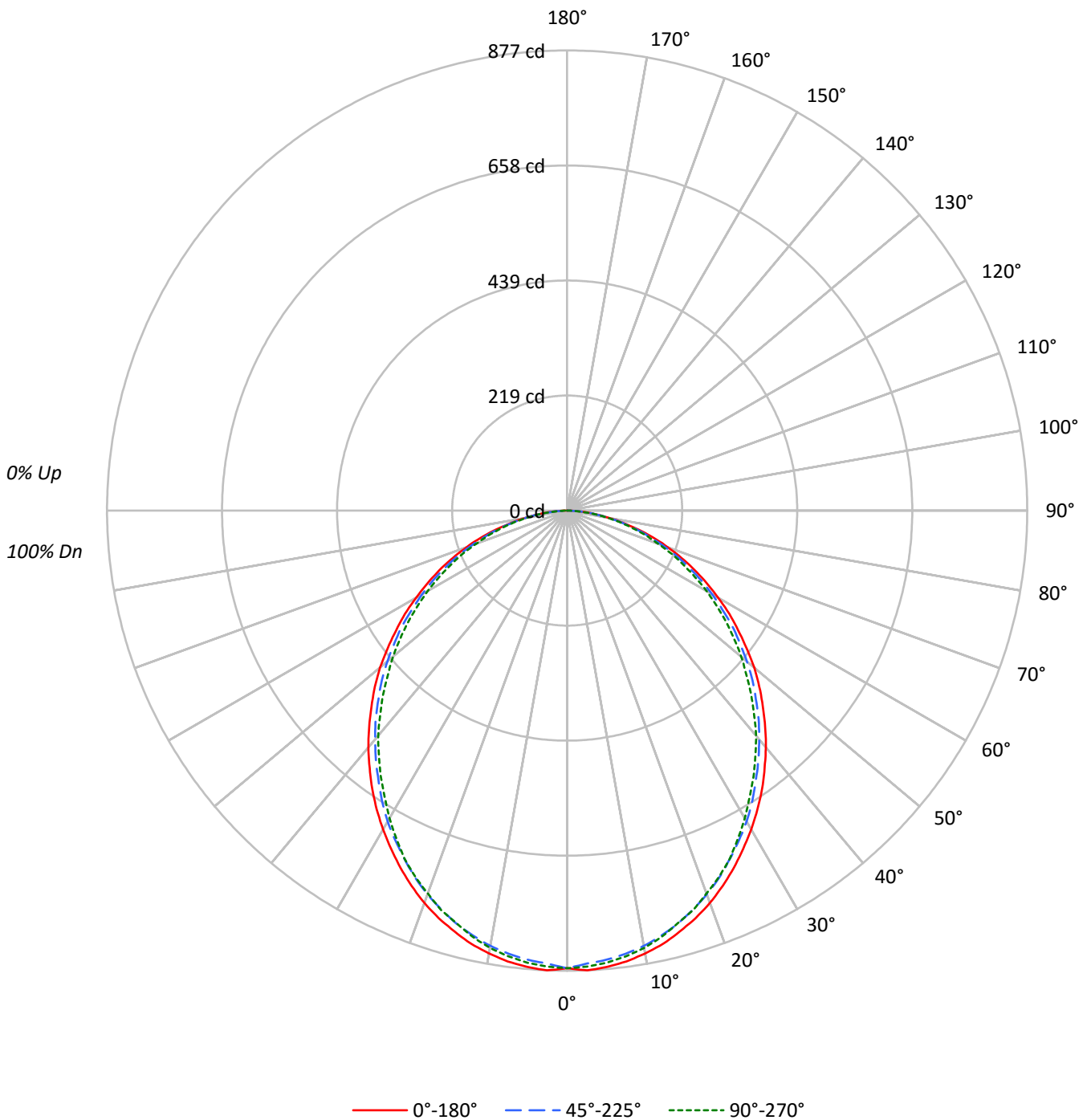
Input Watts (W): 23.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	49	75	63	55	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	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	53	40	33	28	39	32	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16613	16613	16613
5°	16692	16432	16539
10°	16576	16295	16373
15°	16375	16075	16058
20°	16133	15774	15742
25°	15796	15410	15393
30°	15436	15046	14888
35°	15066	14580	14394
40°	14653	14153	13932
45°	14207	13709	13361
50°	13794	13246	12840
55°	13214	12762	12281
60°	12648	12156	11699
65°	12101	11520	11015
70°	11372	10787	10253
75°	10355	9943	9464
80°	8995	8731	8380
85°	7737	6862	6316



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.1	3.7
10°-20°	231.2	10.4
20°-30°	339.9	15.3
30°-40°	394.7	17.8
40°-50°	394.1	17.8
50°-60°	343.3	15.5
60°-70°	253.9	11.4
70°-80°	143.1	6.4
80°-90°	37.3	1.7
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°	653.2	29.4
0°-40°	1047.8	47.2
0°-60°	1785.2	80.4
0°-90°	2219.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2219.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	872	872	872	872	872	
5°	873	869	859	867	865	83
15°	830	826	815	818	814	234
25°	752	745	733	732	732	346
35°	648	641	627	621	619	405
45°	527	522	509	501	496	407
55°	398	395	384	374	370	356
65°	268	264	256	248	244	265
75°	141	140	135	130	129	150
85°	35	34	31	30	29	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	872.2	872.2	872.2	872.2	872.2
2.5°	877.1	873.0	864.2	871.4	869.8
5°	873.0	869.0	859.4	866.6	865.0
7.5°	866.6	862.6	852.1	859.4	857.0
10°	857.0	852.1	842.5	847.3	846.5
12.5°	845.7	840.9	829.6	833.6	832.0
15°	830.4	826.4	815.2	818.4	814.3
17.5°	814.3	807.9	797.5	800.7	798.3
20°	795.9	789.4	778.2	779.8	776.6
22.5°	774.2	767.7	757.3	757.3	755.7
25°	751.6	745.2	733.2	732.4	732.4
27.5°	726.7	721.1	709.0	706.6	705.0
30°	701.8	697.0	684.1	679.3	676.9
32.5°	675.3	668.8	656.8	651.2	647.1
35°	647.9	640.7	627.0	621.4	619.0
37.5°	618.2	611.0	598.9	594.1	589.3
40°	589.3	582.8	569.2	561.9	560.3
42.5°	558.7	552.3	540.2	532.2	527.4
45°	527.4	521.7	508.9	500.8	496.0
47.5°	496.8	490.4	479.1	469.5	463.0
50°	465.5	459.0	447.0	435.7	433.3
52.5°	430.9	426.9	414.8	404.4	401.1
55°	397.9	394.7	384.3	373.8	369.8
57.5°	366.6	362.6	350.5	342.5	337.6
60°	332.0	329.6	319.1	310.3	307.1
62.5°	299.9	296.6	287.8	279.0	274.9
65°	268.5	264.5	255.6	247.6	244.4
67.5°	236.3	232.3	225.1	218.7	215.4
70°	204.2	201.0	193.7	188.1	184.1
72.5°	172.8	169.6	163.2	157.6	156.8
75°	140.7	139.9	135.1	130.2	128.6
77.5°	110.9	110.1	106.9	104.5	102.9
80°	82.0	82.0	79.6	77.2	76.4
82.5°	56.3	57.1	54.7	53.1	53.1
85°	35.4	33.8	31.4	29.7	28.9
87.5°	14.5	12.1	11.3	8.8	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)