

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: P243234

Luminaire Tested: **S122RDR-H675D930-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243234
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-63)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDR-H675D930-X4F0-XX-UDD-F-W
Description: DEFINE 2 REGRESSED 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: 1809.4 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular (W 0.15' x L: 3.88' x H: 0')
CIE Type: Direct

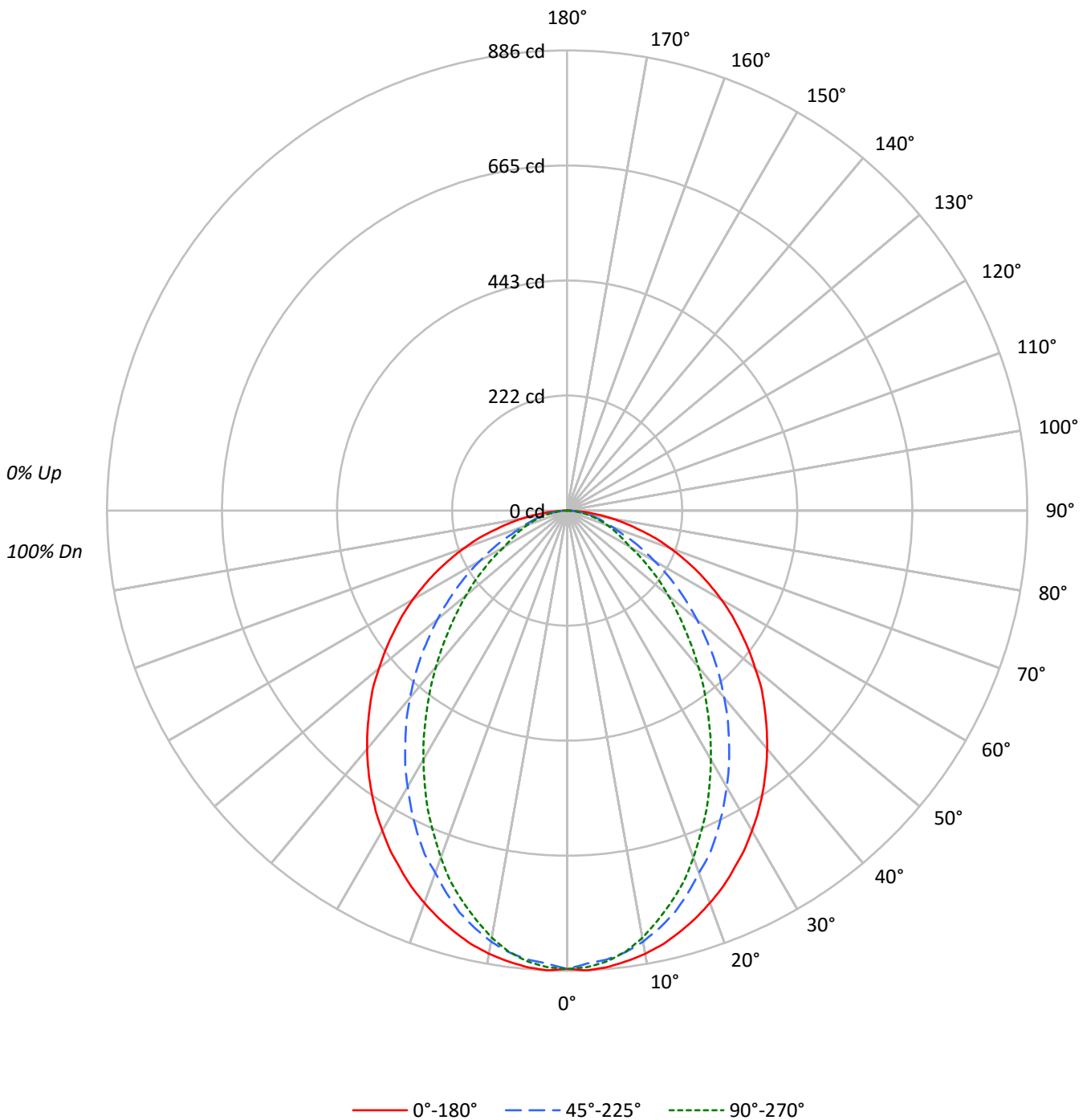
Input Watts (W): 23.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	42	53	46	41	52	46	41	51	45	41	39
8	64	51	43	38	62	51	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	44	38	34	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16806	16806	16806
5°	16870	16593	16665
10°	16756	16299	16152
15°	16557	15791	15356
20°	16295	15045	14412
25°	15983	14367	13344
30°	15653	13511	12172
35°	15293	12622	10957
40°	14897	11697	9767
45°	14476	10724	8593
50°	14008	9654	7536
55°	13526	8594	6496
60°	13078	7394	5307
65°	12489	6242	4908
70°	11745	5174	4578
75°	10701	4703	4202
80°	9598	4179	3762
85°	7977	3497	3322



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.6	4.6
10°-20°	226.5	12.5
20°-30°	317.7	17.6
30°-40°	346.1	19.1
40°-50°	318.1	17.6
50°-60°	249.6	13.8
60°-70°	162.8	9.0
70°-80°	84.2	4.7
80°-90°	21.8	1.2
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°	626.8	34.6
0°-40°	972.9	53.8
0°-60°	1540.6	85.1
0°-90°	1809.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1809.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	882	882	882	882	882	
5°	882	878	868	874	872	84
15°	840	830	801	785	779	237
25°	760	734	684	650	635	351
35°	658	614	543	492	471	411
45°	537	483	398	340	319	415
55°	407	346	259	210	196	365
65°	277	210	138	113	109	274
75°	145	91	64	59	57	156
85°	36	18	16	15	15	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	882.3	882.3	882.3	882.3	882.3
2.5°	886.1	882.3	873.1	881.5	880.0
5°	882.3	877.7	867.8	873.9	871.6
7.5°	875.4	870.8	857.9	860.9	857.1
10°	866.3	860.2	842.7	839.6	835.1
12.5°	854.9	846.5	822.9	813.8	807.7
15°	839.6	829.7	800.8	784.8	778.7
17.5°	822.9	808.4	772.6	754.4	748.3
20°	803.9	787.1	742.2	723.2	711.0
22.5°	784.1	762.8	716.3	686.6	672.2
25°	760.5	733.8	683.6	650.1	634.9
27.5°	737.6	706.4	649.3	610.5	593.8
30°	711.7	677.5	614.3	569.4	553.4
32.5°	685.9	646.3	580.1	531.3	513.1
35°	657.7	614.3	542.8	492.5	471.2
37.5°	628.8	583.9	508.5	452.9	432.4
40°	599.1	548.8	470.4	412.6	392.8
42.5°	568.6	517.6	434.7	375.3	356.3
45°	537.4	482.6	398.1	340.3	319.0
47.5°	507.7	448.4	360.8	306.0	285.5
50°	472.7	414.1	325.8	270.2	254.3
52.5°	440.8	379.9	291.6	238.3	224.6
55°	407.3	346.4	258.8	210.1	195.6
57.5°	376.0	311.3	226.1	181.9	168.2
60°	343.3	277.8	194.1	153.8	139.3
62.5°	309.1	243.6	165.9	127.9	123.3
65°	277.1	210.1	138.5	112.7	108.9
67.5°	242.8	178.9	110.4	99.0	95.2
70°	210.9	148.4	92.9	84.5	82.2
72.5°	179.6	119.5	78.4	71.6	69.3
75°	145.4	90.6	63.9	58.6	57.1
77.5°	115.7	63.9	51.0	47.2	45.7
80°	87.5	46.4	38.1	35.8	34.3
82.5°	60.1	31.2	26.6	25.1	24.4
85°	36.5	17.5	16.0	15.2	15.2
87.5°	14.5	6.9	6.9	6.1	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)