

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: P243244

Luminaire Tested: **S122RDR-H675D940-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243244
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-H675D940-X4F0-XX-UDD-F-W
Description: DEFINE 2 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1979.0 lumens
Efficiency: N/A
Efficacy: 83.9 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

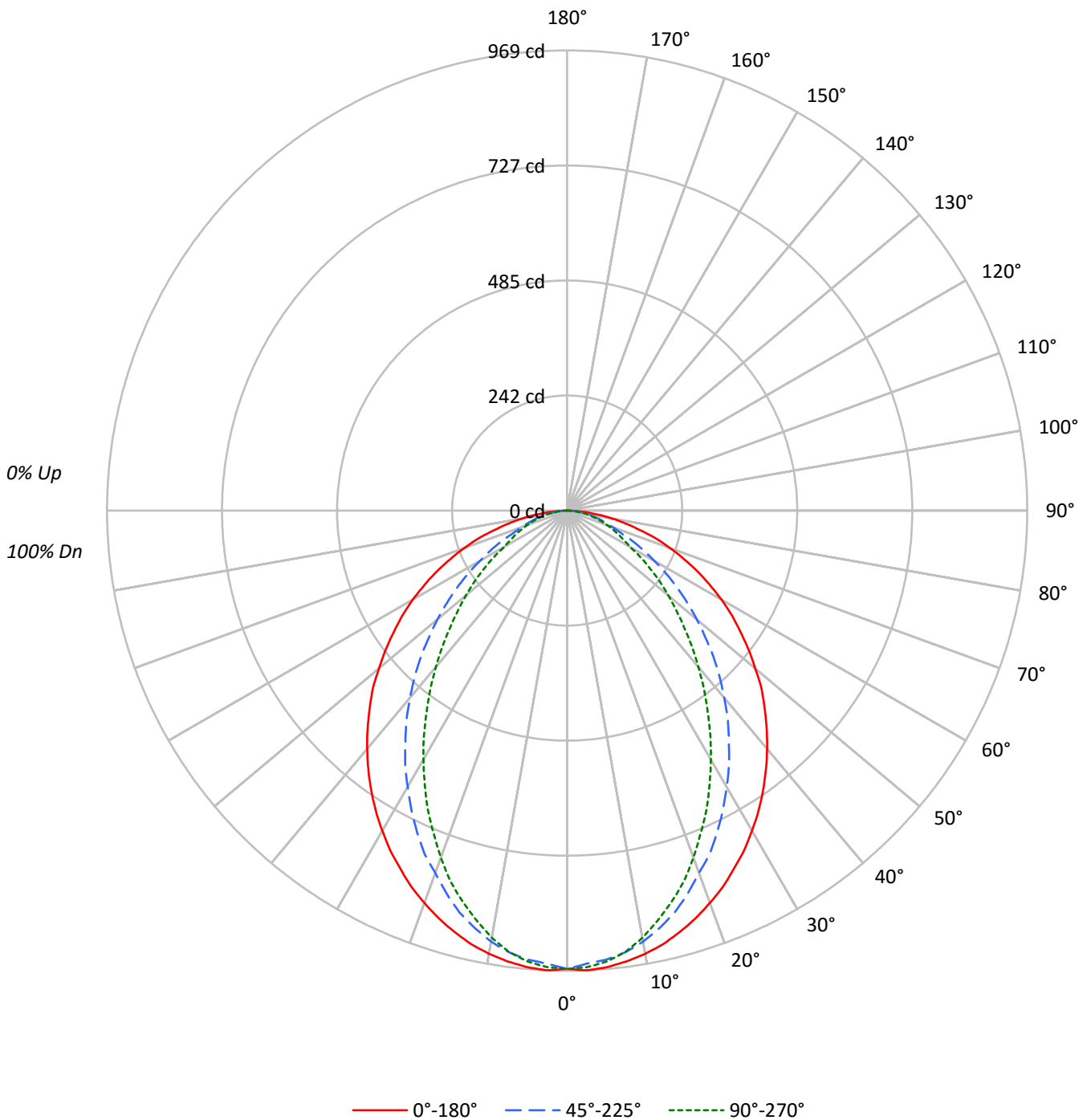
Input Watts (W): 23.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	18381	18381	18381
5°	18451	18147	18228
10°	18326	17827	17665
15°	18109	17272	16795
20°	17822	16455	15762
25°	17480	15712	14594
30°	17123	14778	13313
35°	16726	13803	11985
40°	16292	12793	10682
45°	15834	11729	9396
50°	15320	10558	8241
55°	14791	9401	7107
60°	14305	8088	5806
65°	13661	6828	5368
70°	12843	5658	5007
75°	11702	5144	4592
80°	10497	4563	4113
85°	8742	3825	3650



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.4	4.6
10°-20°	247.7	12.5
20°-30°	347.5	17.6
30°-40°	378.5	19.1
40°-50°	347.9	17.6
50°-60°	273.0	13.8
60°-70°	178.1	9.0
70°-80°	92.1	4.7
80°-90°	23.8	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°	685.6	34.6
0°-40°	1064.0	53.8
0°-60°	1684.9	85.1
0°-90°	1979.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1979.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	965	965	965	965	965	
5°	965	960	949	956	953	92
15°	918	908	876	858	852	259
25°	832	803	748	711	694	383
35°	719	672	594	539	515	450
45°	588	528	435	372	349	454
55°	445	379	283	230	214	399
65°	303	230	152	123	119	299
75°	159	99	70	64	62	170
85°	40	19	18	17	17	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	965.0	965.0	965.0	965.0	965.0
2.5°	969.1	965.0	955.0	964.1	962.5
5°	965.0	960.0	949.1	955.8	953.3
7.5°	957.5	952.5	938.3	941.6	937.5
10°	947.5	940.8	921.7	918.3	913.3
12.5°	935.0	925.8	900.0	890.0	883.4
15°	918.3	907.5	875.9	858.4	851.7
17.5°	900.0	884.2	845.1	825.1	818.4
20°	879.2	860.9	811.8	790.9	777.6
22.5°	857.5	834.2	783.5	751.0	735.2
25°	831.7	802.6	747.6	711.0	694.4
27.5°	806.8	772.6	710.2	667.7	649.4
30°	778.5	741.0	671.9	622.8	605.3
32.5°	750.1	706.9	634.4	581.1	561.2
35°	719.3	671.9	593.6	538.7	515.4
37.5°	687.7	638.6	556.2	495.4	472.9
40°	655.2	600.3	514.5	451.3	429.6
42.5°	621.9	566.1	475.4	410.5	389.6
45°	587.8	527.9	435.4	372.2	348.8
47.5°	555.3	490.4	394.6	334.7	312.2
50°	517.0	452.9	356.3	295.6	278.1
52.5°	482.1	415.5	318.9	260.6	245.6
55°	445.4	378.8	283.1	229.8	214.0
57.5°	411.3	340.5	247.3	199.0	184.0
60°	375.5	303.9	212.3	168.2	152.4
62.5°	338.0	266.4	181.5	139.9	134.9
65°	303.1	229.8	151.5	123.2	119.1
67.5°	265.6	195.7	120.7	108.2	104.1
70°	230.6	162.4	101.6	92.4	89.9
72.5°	196.5	130.7	85.8	78.3	75.8
75°	159.0	99.1	69.9	64.1	62.4
77.5°	126.6	69.9	55.8	51.6	50.0
80°	95.7	50.8	41.6	39.1	37.5
82.5°	65.8	34.1	29.1	27.5	26.6
85°	40.0	19.1	17.5	16.7	16.7
87.5°	15.8	7.5	7.5	6.7	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)