

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: P243245

Luminaire Tested: **S122RDR-H865D940-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243245
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-H865D940-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: 2552.1 lumens
Efficiency: N/A
Efficacy: 81.0 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

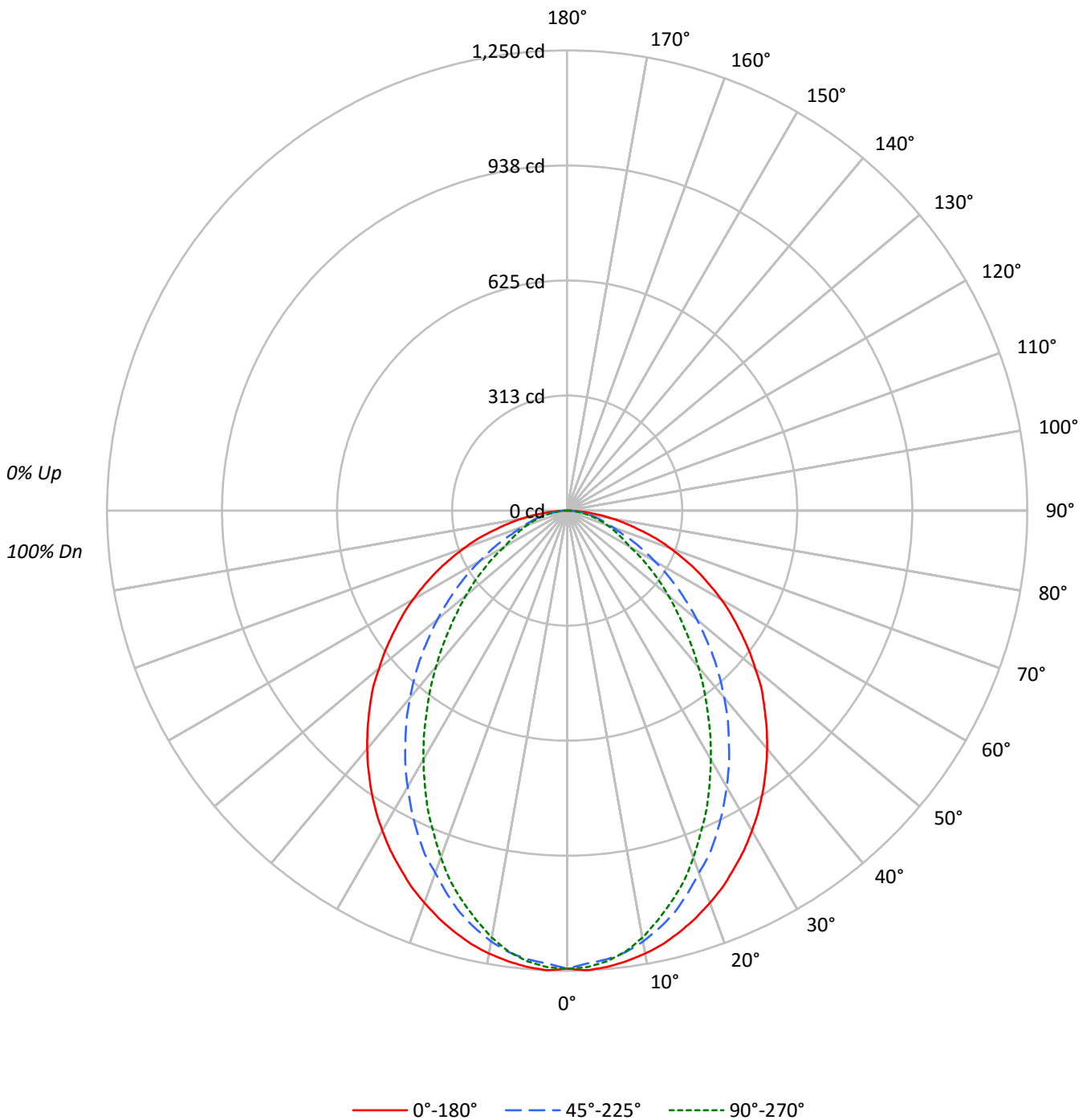
Input Watts (W): 31.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	23703	23703	23703
5°	23794	23403	23507
10°	23633	22989	22782
15°	23354	22273	21660
20°	22982	21221	20327
25°	22543	20264	18821
30°	22080	19058	17169
35°	21572	17802	15454
40°	21011	16500	13775
45°	20419	15125	12119
50°	19759	13616	10626
55°	19075	12124	9162
60°	18446	10431	7486
65°	17614	8807	6918
70°	16563	7296	6460
75°	15094	6638	5924
80°	13547	5890	5298
85°	11255	4917	4699



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.6	4.6
10°-20°	319.4	12.5
20°-30°	448.1	17.6
30°-40°	488.1	19.1
40°-50°	448.6	17.6
50°-60°	352.1	13.8
60°-70°	229.7	9.0
70°-80°	118.8	4.7
80°-90°	30.7	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°	884.1	34.6
0°-40°	1372.2	53.8
0°-60°	2172.9	85.1
0°-90°	2552.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2552.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1244	1244	1244	1244	1244	
5°	1244	1238	1224	1233	1229	118
15°	1184	1170	1130	1107	1098	334
25°	1073	1035	964	917	896	494
35°	928	866	766	695	665	580
45°	758	681	562	480	450	585
55°	574	488	365	296	276	515
65°	391	296	195	159	154	386
75°	205	128	90	83	80	219
85°	52	25	22	22	22	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1244.4	1244.4	1244.4	1244.4	1244.4
2.5°	1249.8	1244.4	1231.5	1243.4	1241.2
5°	1244.4	1238.0	1224.0	1232.6	1229.4
7.5°	1234.8	1228.3	1210.1	1214.4	1209.0
10°	1221.9	1213.3	1188.6	1184.3	1177.9
12.5°	1205.8	1194.0	1160.7	1147.8	1139.2
15°	1184.3	1170.3	1129.5	1107.0	1098.4
17.5°	1160.7	1140.3	1089.8	1064.0	1055.5
20°	1133.8	1110.2	1046.9	1020.0	1002.8
22.5°	1105.9	1075.9	1010.4	968.5	948.1
25°	1072.6	1035.1	964.2	916.9	895.5
27.5°	1040.4	996.4	915.9	861.1	837.5
30°	1003.9	955.6	866.5	803.1	780.6
32.5°	967.4	911.6	818.2	749.4	723.7
35°	927.7	866.5	765.6	694.7	664.6
37.5°	886.9	823.5	717.2	638.9	609.9
40°	845.0	774.1	663.6	581.9	554.0
42.5°	802.1	730.1	613.1	529.3	502.5
45°	758.0	680.7	561.5	479.9	449.9
47.5°	716.2	632.4	508.9	431.6	402.6
50°	666.8	584.1	459.5	381.2	358.6
52.5°	621.7	535.8	411.2	336.1	316.7
55°	574.4	488.5	365.1	296.3	275.9
57.5°	530.4	439.1	318.9	256.6	237.3
60°	484.2	391.9	273.8	216.9	196.5
62.5°	435.9	343.6	234.1	180.4	173.9
65°	390.8	296.3	195.4	158.9	153.5
67.5°	342.5	252.3	155.7	139.6	134.2
70°	297.4	209.4	131.0	119.2	116.0
72.5°	253.4	168.6	110.6	100.9	97.7
75°	205.1	127.8	90.2	82.7	80.5
77.5°	163.2	90.2	71.9	66.6	64.4
80°	123.5	65.5	53.7	50.5	48.3
82.5°	84.8	44.0	37.6	35.4	34.4
85°	51.5	24.7	22.5	21.5	21.5
87.5°	20.4	9.7	9.7	8.6	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)