

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: P243216

Luminaire Tested: **S122RDR-H865D927-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243216
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-H865D927-X4F0-XX-UDD-F-W
Description: DEFINE 2 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2267.3 lumens
Efficiency: N/A
Efficacy: 72.0 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

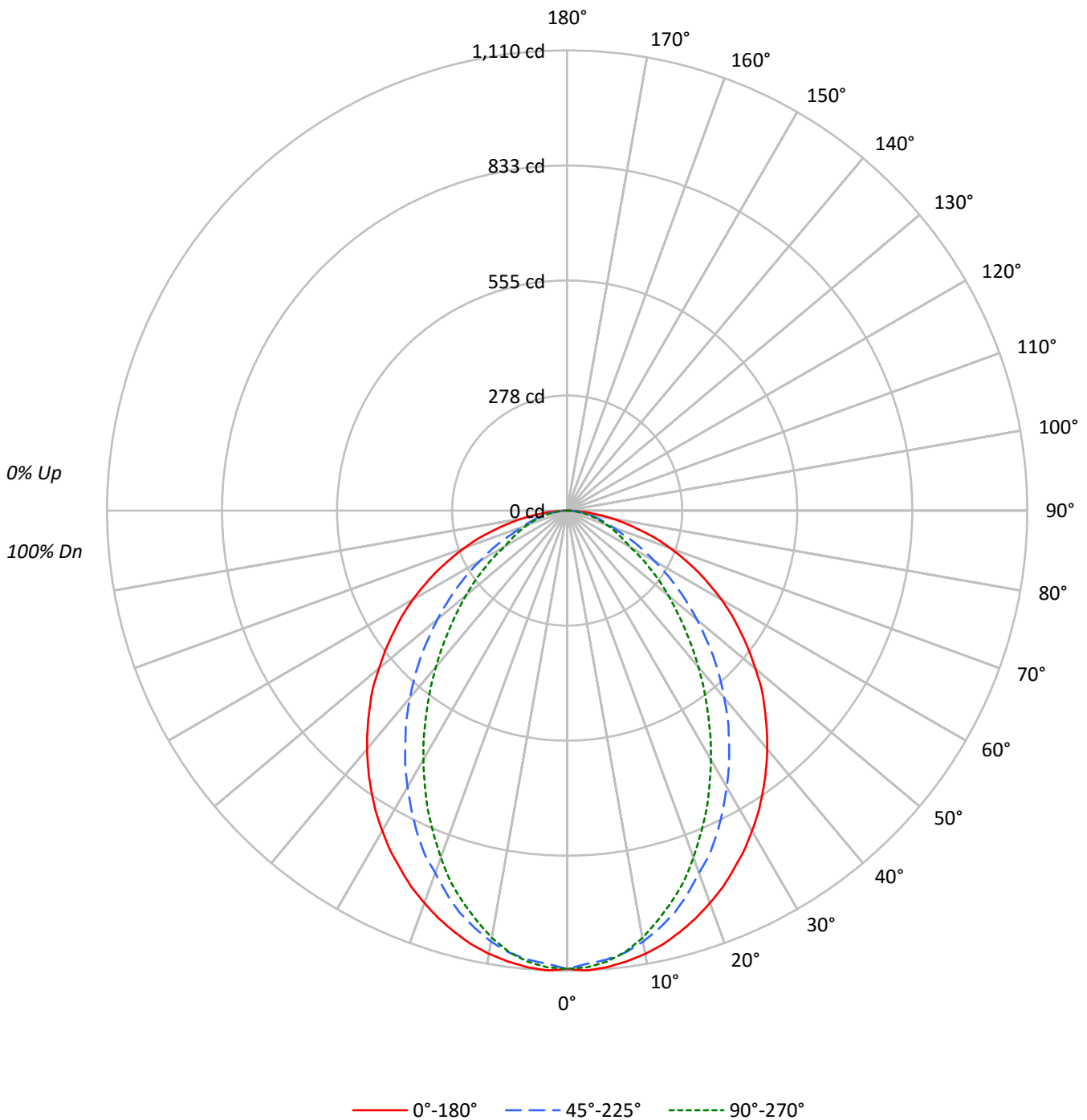
Input Watts (W): 31.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	21057	21057	21057
5°	21138	20792	20883
10°	20995	20423	20239
15°	20747	19789	19242
20°	20418	18851	18059
25°	20027	18003	16719
30°	19617	16931	15253
35°	19163	15814	13729
40°	18666	14658	12239
45°	18140	13439	10767
50°	17555	12099	9441
55°	16946	10770	8139
60°	16389	9265	6651
65°	15649	7824	6148
70°	14714	6483	5736
75°	13409	5895	5262
80°	12033	5232	4706
85°	10009	4371	4174



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.5	4.6
10°-20°	283.8	12.5
20°-30°	398.1	17.6
30°-40°	433.6	19.1
40°-50°	398.6	17.6
50°-60°	312.8	13.8
60°-70°	204.0	9.0
70°-80°	105.5	4.7
80°-90°	27.3	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°	785.4	34.6
0°-40°	1219.1	53.8
0°-60°	1930.4	85.1
0°-90°	2267.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2267.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1106	1106	1106	1106	1106	
5°	1106	1100	1087	1095	1092	105
15°	1052	1040	1004	983	976	297
25°	953	920	857	815	796	439
35°	824	770	680	617	590	515
45°	673	605	499	426	400	520
55°	510	434	324	263	245	457
65°	347	263	174	141	136	343
75°	182	114	80	73	72	195
85°	46	22	20	19	19	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1105.5	1105.5	1105.5	1105.5	1105.5
2.5°	1110.3	1105.5	1094.1	1104.6	1102.7
5°	1105.5	1099.8	1087.4	1095.0	1092.2
7.5°	1096.9	1091.2	1075.0	1078.8	1074.1
10°	1085.5	1077.9	1055.9	1052.1	1046.4
12.5°	1071.2	1060.7	1031.1	1019.7	1012.1
15°	1052.1	1039.7	1003.5	983.4	975.8
17.5°	1031.1	1013.0	968.2	945.3	937.6
20°	1007.3	986.3	930.0	906.2	890.9
22.5°	982.5	955.8	897.6	860.4	842.3
25°	952.9	919.5	856.6	814.6	795.5
27.5°	924.3	885.2	813.6	765.0	744.0
30°	891.9	848.9	769.8	713.5	693.5
32.5°	859.4	809.8	726.8	665.8	642.9
35°	824.1	769.8	680.1	617.2	590.4
37.5°	787.9	731.6	637.2	567.6	541.8
40°	750.7	687.7	589.5	517.0	492.2
42.5°	712.5	648.6	544.7	470.3	446.4
45°	673.4	604.8	498.9	426.4	399.7
47.5°	636.2	561.8	452.1	383.5	357.7
50°	592.4	518.9	408.3	338.6	318.6
52.5°	552.3	476.0	365.3	298.6	281.4
55°	510.3	434.0	324.3	263.3	245.1
57.5°	471.2	390.1	283.3	228.0	210.8
60°	430.2	348.2	243.2	192.7	174.6
62.5°	387.3	305.2	207.9	160.2	154.5
65°	347.2	263.3	173.6	141.2	136.4
67.5°	304.3	224.2	138.3	124.0	119.2
70°	264.2	186.0	116.4	105.9	103.0
72.5°	225.1	149.8	98.2	89.7	86.8
75°	182.2	113.5	80.1	73.4	71.5
77.5°	145.0	80.1	63.9	59.1	57.2
80°	109.7	58.2	47.7	44.8	42.9
82.5°	75.4	39.1	33.4	31.5	30.5
85°	45.8	21.9	20.0	19.1	19.1
87.5°	18.1	8.6	8.6	7.6	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)