

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: P243219

Luminaire Tested: **S122RDR-H485D830-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243219
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-H485D830-X4F0-XX-UDD-F-W
Description: DEFINE 2 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1493.6 lumens
Efficiency: N/A
Efficacy: 86.8 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

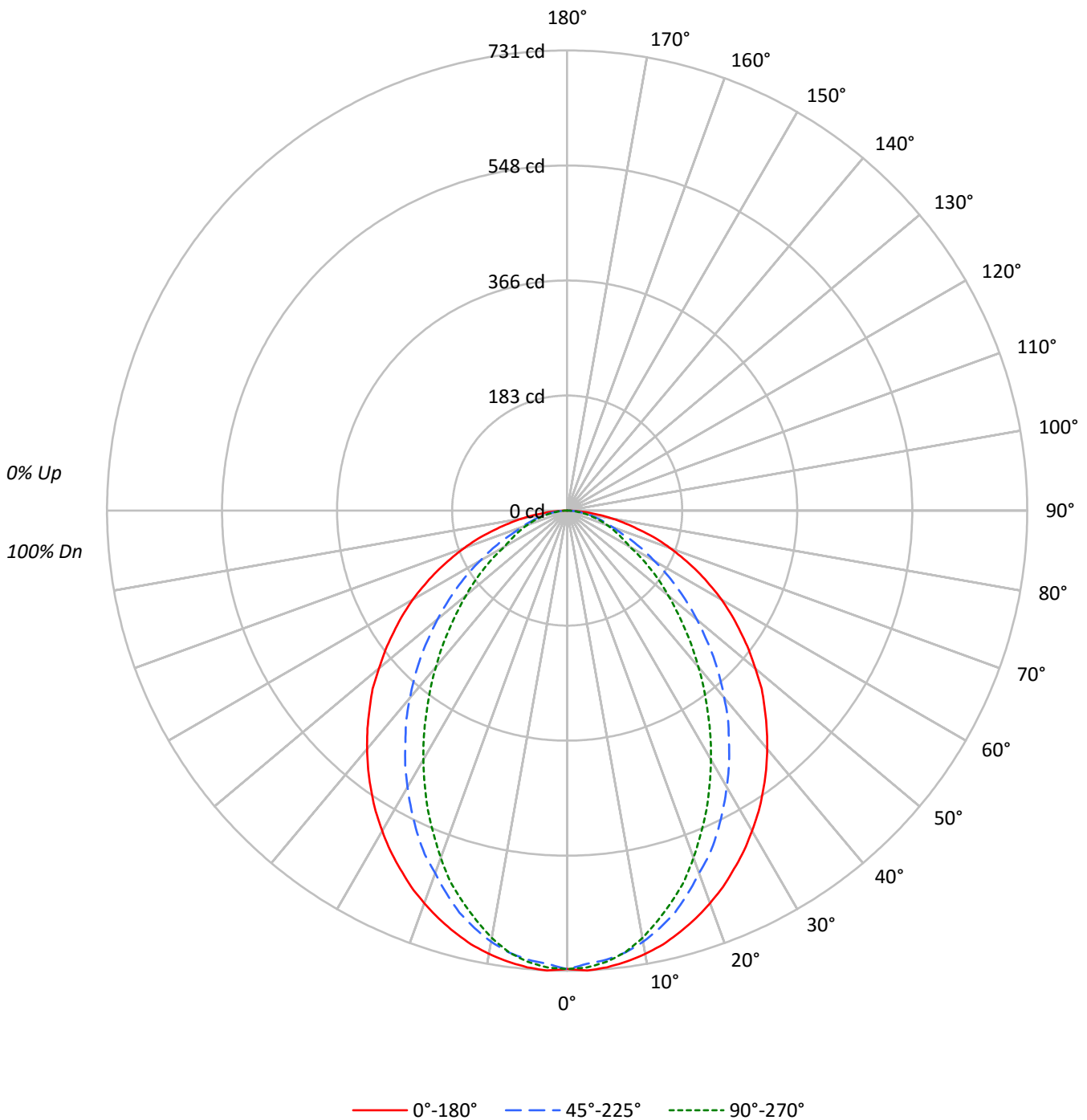
Input Watts (W): 17.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P243219

CATALOG NUMBER: S122RDR-H485D830-X4F0-XX-UDD-F-W

Luminous Intensity Polar Plot





TEST NUMBER: P243219

CATALOG NUMBER: S122RDR-H485D830-X4F0-XX-UDD-F-W

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°	13872	13872	13872
5°	13925	13696	13757
10°	13831	13454	13332
15°	13668	13037	12676
20°	13451	12420	11897
25°	13192	11860	11015
30°	12922	11153	10047
35°	12624	10417	9045
40°	12296	9655	8061
45°	11949	8852	7093
50°	11563	7968	6220
55°	11165	7093	5363
60°	10796	6103	4381
65°	10308	5156	4052
70°	9696	4272	3781
75°	8831	3886	3466
80°	7931	3444	3104
85°	6600	2885	2754



TEST NUMBER: P243219

CATALOG NUMBER: S122RDR-H485D830-X4F0-XX-UDD-F-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.2	4.6
10°-20°	187.0	12.5
20°-30°	262.3	17.6
30°-40°	285.7	19.1
40°-50°	262.6	17.6
50°-60°	206.0	13.8
60°-70°	134.4	9.0
70°-80°	69.5	4.7
80°-90°	18.0	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°	517.4	34.6
0°-40°	803.1	53.8
0°-60°	1271.7	85.1
0°-90°	1493.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1493.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	728	728	728	728	728	
5°	728	724	716	721	720	69
15°	693	685	661	648	643	195
25°	628	606	564	537	524	289
35°	543	507	448	407	389	340
45°	444	398	329	281	263	342
55°	336	286	214	173	162	301
65°	229	173	114	93	90	226
75°	120	75	53	48	47	128
85°	30	14	13	13	13	35
90°	0	0	0	0	0	



TEST NUMBER: P243219

CATALOG NUMBER: S122RDR-H485D830-X4F0-XX-UDD-F-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	728.3	728.3	728.3	728.3	728.3
2.5°	731.4	728.3	720.7	727.7	726.4
5°	728.3	724.5	716.3	721.4	719.5
7.5°	722.6	718.9	708.2	710.7	707.6
10°	715.1	710.1	695.6	693.1	689.3
12.5°	705.7	698.8	679.3	671.7	666.7
15°	693.1	684.9	661.1	647.9	642.8
17.5°	679.3	667.3	637.8	622.7	617.7
20°	663.6	649.7	612.7	597.0	586.9
22.5°	647.2	629.6	591.3	566.8	554.9
25°	627.7	605.8	564.3	536.6	524.1
27.5°	608.9	583.1	536.0	504.0	490.1
30°	587.5	559.3	507.1	470.0	456.8
32.5°	566.2	533.5	478.8	438.6	423.5
35°	542.9	507.1	448.0	406.6	389.0
37.5°	519.0	482.0	419.8	373.9	356.9
40°	494.5	453.1	388.3	340.6	324.2
42.5°	469.4	427.3	358.8	309.8	294.1
45°	443.6	398.4	328.6	280.9	263.3
47.5°	419.1	370.1	297.8	252.6	235.6
50°	390.2	341.8	268.9	223.1	209.9
52.5°	363.8	313.6	240.7	196.7	185.4
55°	336.2	285.9	213.6	173.4	161.5
57.5°	310.4	257.0	186.6	150.2	138.9
60°	283.4	229.4	160.2	126.9	115.0
62.5°	255.1	201.1	137.0	105.6	101.8
65°	228.7	173.4	114.4	93.0	89.9
67.5°	200.5	147.7	91.1	81.7	78.5
70°	174.1	122.5	76.7	69.7	67.9
72.5°	148.3	98.7	64.7	59.1	57.2
75°	120.0	74.8	52.8	48.4	47.1
77.5°	95.5	52.8	42.1	39.0	37.7
80°	72.3	38.3	31.4	29.5	28.3
82.5°	49.6	25.8	22.0	20.7	20.1
85°	30.2	14.5	13.2	12.6	12.6
87.5°	11.9	5.7	5.7	5.0	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)