

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: P242377

Luminaire Tested: **S122RDR-S290D935-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242377
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDR-S290D935-X4F0-XX-UDD-F-W
Description: DEFINE 2 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 854.3 lumens
Efficiency: N/A
Efficacy: 73.6 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

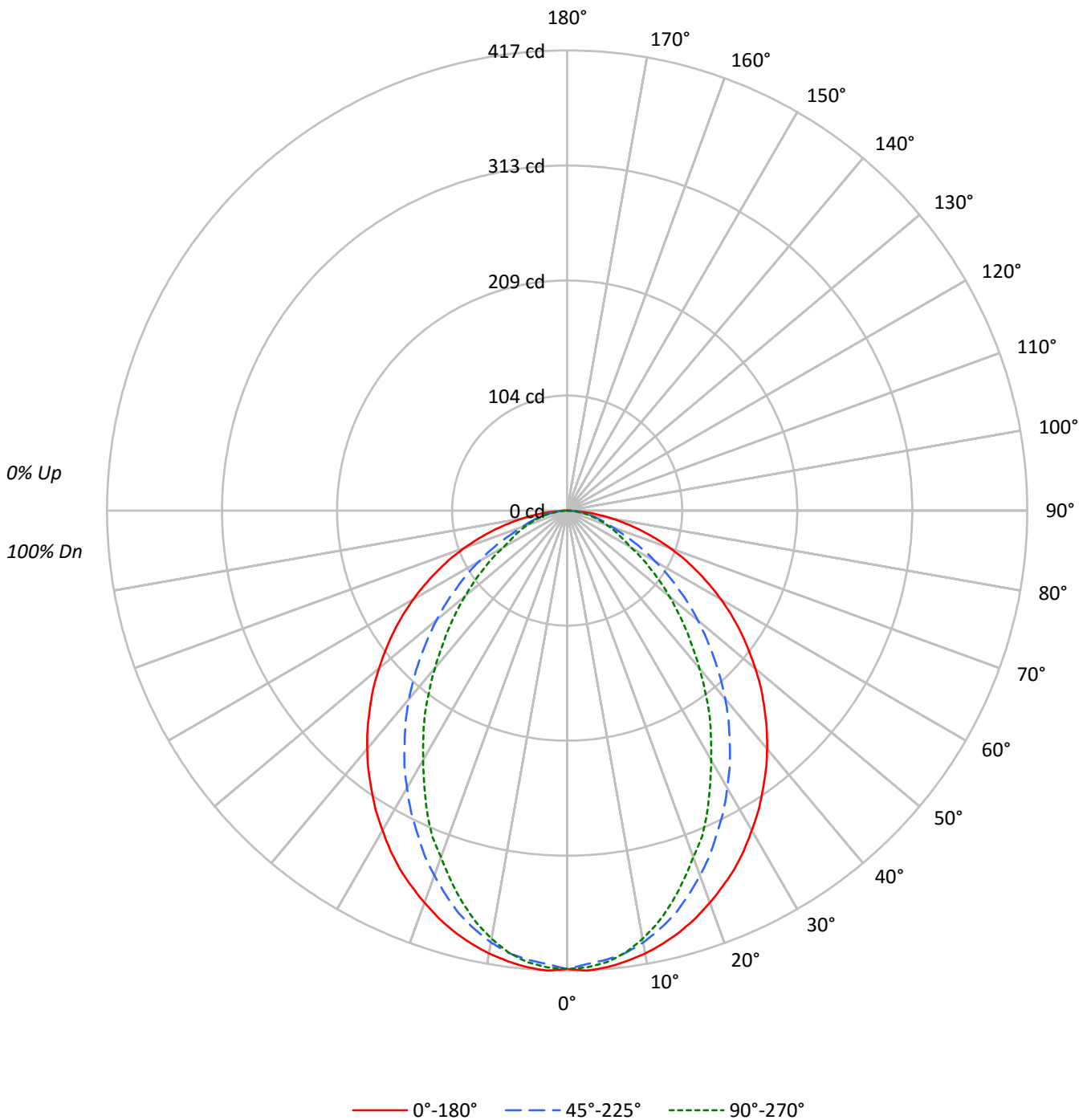
Input Watts (W): 11.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	78	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°	7912	7912	7912
5°	7943	7813	7857
10°	7882	7686	7621
15°	7791	7458	7243
20°	7666	7133	6774
25°	7537	6763	6320
30°	7359	6383	5738
35°	7185	5971	5227
40°	7009	5542	4637
45°	6804	5064	4103
50°	6596	4578	3577
55°	6379	4058	3072
60°	6130	3509	2549
65°	5846	2948	2321
70°	5508	2428	2133
75°	5093	2215	1994
80°	4497	1974	1810
85°	3540	1552	1552



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.9	4.6
10°-20°	106.9	12.5
20°-30°	150.1	17.6
30°-40°	163.6	19.1
40°-50°	150.3	17.6
50°-60°	118.1	13.8
60°-70°	76.8	9.0
70°-80°	39.6	4.6
80°-90°	10.1	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°	295.9	34.6
0°-40°	459.4	53.8
0°-60°	727.8	85.2
0°-90°	854.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	854.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	415	415	415	415	415	
5°	415	414	409	412	411	39
15°	395	391	378	371	367	111
25°	359	347	322	306	301	165
35°	309	290	257	233	225	193
45°	253	227	188	161	152	195
55°	192	163	122	100	92	172
65°	130	99	65	53	52	129
75°	69	43	30	27	27	73
85°	16	8	7	7	7	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	415.4	415.4	415.4	415.4	415.4
2.5°	417.3	415.4	411.3	415.0	414.3
5°	415.4	413.5	408.6	412.0	410.9
7.5°	412.0	409.8	404.5	406.0	404.1
10°	407.5	404.9	397.4	396.2	394.0
12.5°	401.9	398.5	388.3	386.1	381.9
15°	395.1	391.0	378.2	371.0	367.3
17.5°	387.2	381.2	365.4	357.1	351.1
20°	378.2	370.7	351.9	342.5	334.2
22.5°	368.4	359.8	338.0	325.2	319.5
25°	358.6	346.6	321.8	306.4	300.7
27.5°	347.0	334.2	306.8	289.1	280.4
30°	334.6	320.3	290.2	271.0	260.9
32.5°	322.5	305.3	274.4	251.9	242.5
35°	309.0	289.8	256.8	233.1	224.8
37.5°	295.9	275.2	240.2	214.3	204.9
40°	281.9	259.4	222.9	196.2	186.5
42.5°	267.7	243.6	205.6	177.8	168.4
45°	252.6	227.4	188.0	161.3	152.3
47.5°	238.3	211.6	171.0	144.4	136.1
50°	222.6	195.9	154.5	128.6	120.7
52.5°	207.1	178.9	138.7	113.9	106.8
55°	192.1	162.8	122.2	99.6	92.5
57.5°	176.7	146.6	107.5	86.5	80.4
60°	160.9	130.8	92.1	72.9	66.9
62.5°	145.5	115.4	78.9	60.9	57.9
65°	129.7	99.2	65.4	52.6	51.5
67.5°	114.7	84.2	52.6	46.2	45.1
70°	98.9	69.5	43.6	39.8	38.3
72.5°	83.8	56.0	36.5	33.5	32.7
75°	69.2	42.9	30.1	27.4	27.1
77.5°	54.5	30.5	23.7	22.2	21.4
80°	41.0	21.8	18.0	16.5	16.5
82.5°	28.6	14.7	12.4	11.7	11.7
85°	16.2	8.3	7.1	7.1	7.1
87.5°	6.0	3.0	3.0	2.6	2.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)