

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: P242697

Luminaire Tested: **S124RDR-S350D927-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242697
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-26)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDR-S350D927-X4F0-XX-UDD-F-W
Description: DEFINE 4 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1043.7 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.31' x L: 3.88' x H: 0')
CIE Type: Direct

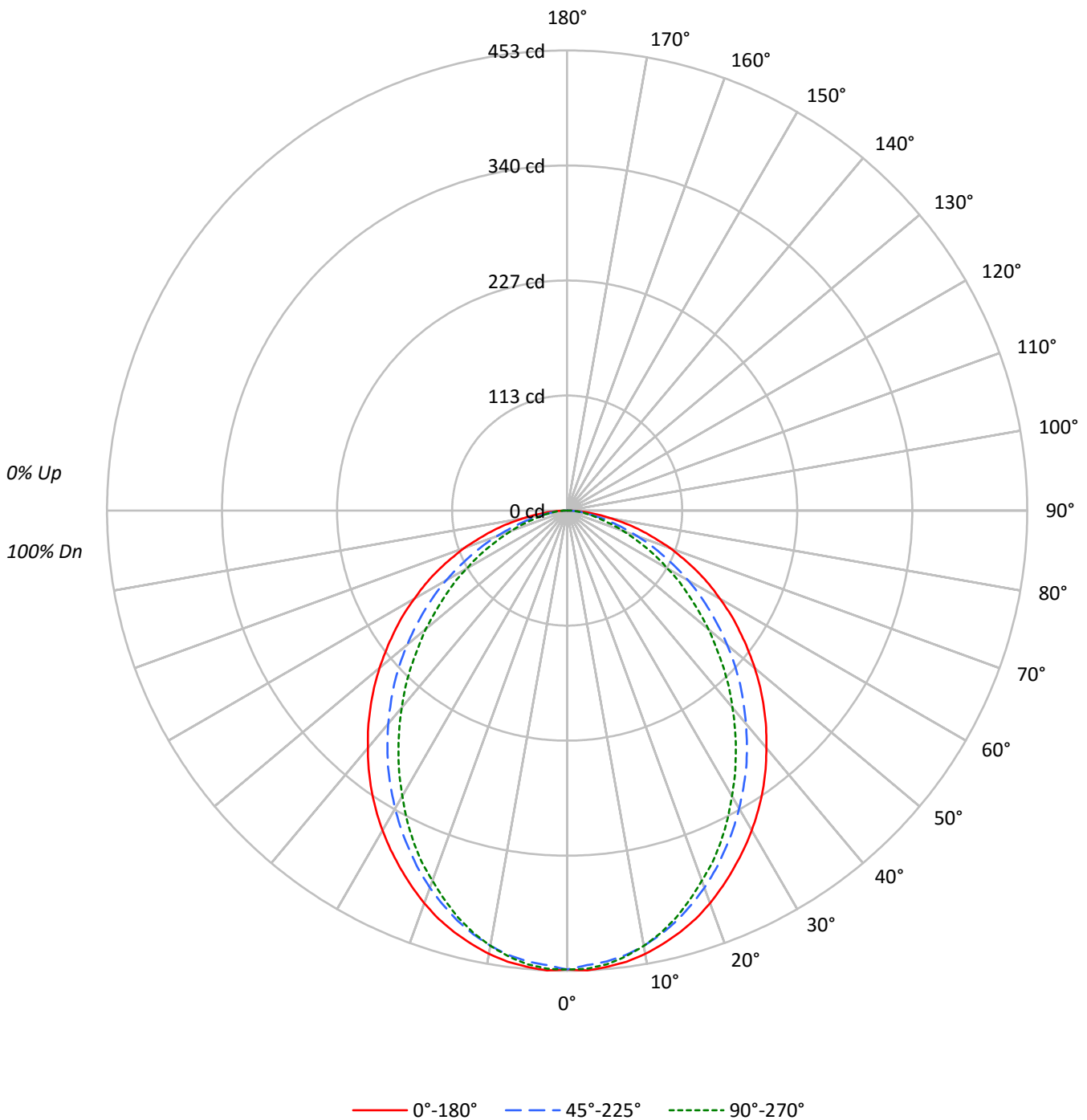
Input Watts (W): 11.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	74	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	56	54
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	35	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4015	4015	4015
5°	4024	3975	4000
10°	3999	3927	3927
15°	3953	3845	3816
20°	3891	3736	3667
25°	3809	3609	3518
30°	3731	3475	3330
35°	3645	3337	3141
40°	3540	3178	2938
45°	3443	3022	2730
50°	3334	2842	2511
55°	3216	2653	2273
60°	3086	2448	2028
65°	2968	2190	1790
70°	2796	1905	1520
75°	2579	1580	1236
80°	2247	1203	1131
85°	1907	1091	1020



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.5	4.1
10°-20°	118.4	11.3
20°-30°	171.0	16.4
30°-40°	193.8	18.6
40°-50°	187.1	17.9
50°-60°	155.6	14.9
60°-70°	107.4	10.3
70°-80°	54.2	5.2
80°-90°	13.8	1.3
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°	331.9	31.8
0°-40°	525.7	50.4
0°-60°	868.3	83.2
0°-90°	1043.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1043.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	452	452	452	452	452	
5°	451	450	446	449	448	43
15°	430	426	418	417	415	121
25°	388	382	368	362	359	179
35°	336	325	308	296	290	210
45°	274	261	240	223	217	211
55°	208	194	171	153	147	186
65°	141	126	104	89	85	139
75°	75	62	46	38	36	79
85°	19	12	11	10	10	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	451.7	451.7	451.7	451.7	451.7
2.5°	453.1	451.7	447.9	451.7	451.4
5°	451.0	449.7	445.5	449.0	448.3
7.5°	447.9	446.5	441.3	443.8	442.7
10°	443.1	441.3	435.1	436.5	435.1
12.5°	436.9	434.8	427.2	427.9	425.8
15°	429.6	426.5	417.8	417.1	414.7
17.5°	421.3	416.8	406.8	405.0	401.6
20°	411.3	406.8	395.0	392.2	387.7
22.5°	400.2	395.0	382.2	377.7	374.2
25°	388.4	382.2	368.0	362.1	358.7
27.5°	376.3	368.7	353.8	346.9	342.1
30°	363.5	354.9	338.6	330.0	324.4
32.5°	350.0	340.0	323.1	312.7	307.5
35°	335.9	324.8	307.5	295.7	289.5
37.5°	321.0	309.6	290.5	277.7	271.5
40°	305.1	293.7	273.9	259.4	253.2
42.5°	289.9	277.7	257.0	242.1	235.5
45°	273.9	261.1	240.4	223.4	217.2
47.5°	257.7	244.5	223.1	205.5	198.5
50°	241.1	227.6	205.5	188.2	181.6
52.5°	224.1	211.0	188.2	170.5	163.6
55°	207.5	193.7	171.2	153.2	146.7
57.5°	191.3	176.7	154.6	136.3	131.4
60°	173.6	159.8	137.7	119.7	114.1
62.5°	157.7	143.2	120.4	104.1	100.0
65°	141.1	126.2	104.1	89.2	85.1
67.5°	123.8	109.6	88.9	75.7	70.9
70°	107.6	93.0	73.3	61.9	58.5
72.5°	90.3	77.5	59.1	49.8	46.7
75°	75.1	62.3	46.0	38.0	36.0
77.5°	59.1	48.1	34.2	28.7	28.0
80°	43.9	33.9	23.5	22.5	22.1
82.5°	30.8	21.8	16.9	16.3	15.9
85°	18.7	11.8	10.7	10.0	10.0
87.5°	8.0	5.2	4.8	4.5	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)