

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: P242716

Luminaire Tested: **S124RDR-S350D930-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242716
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-S350D930-X4F0-XX-UDD-F-W
Description: DEFINE 4 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1074.2 lumens
Efficiency: N/A
Efficacy: 92.6 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

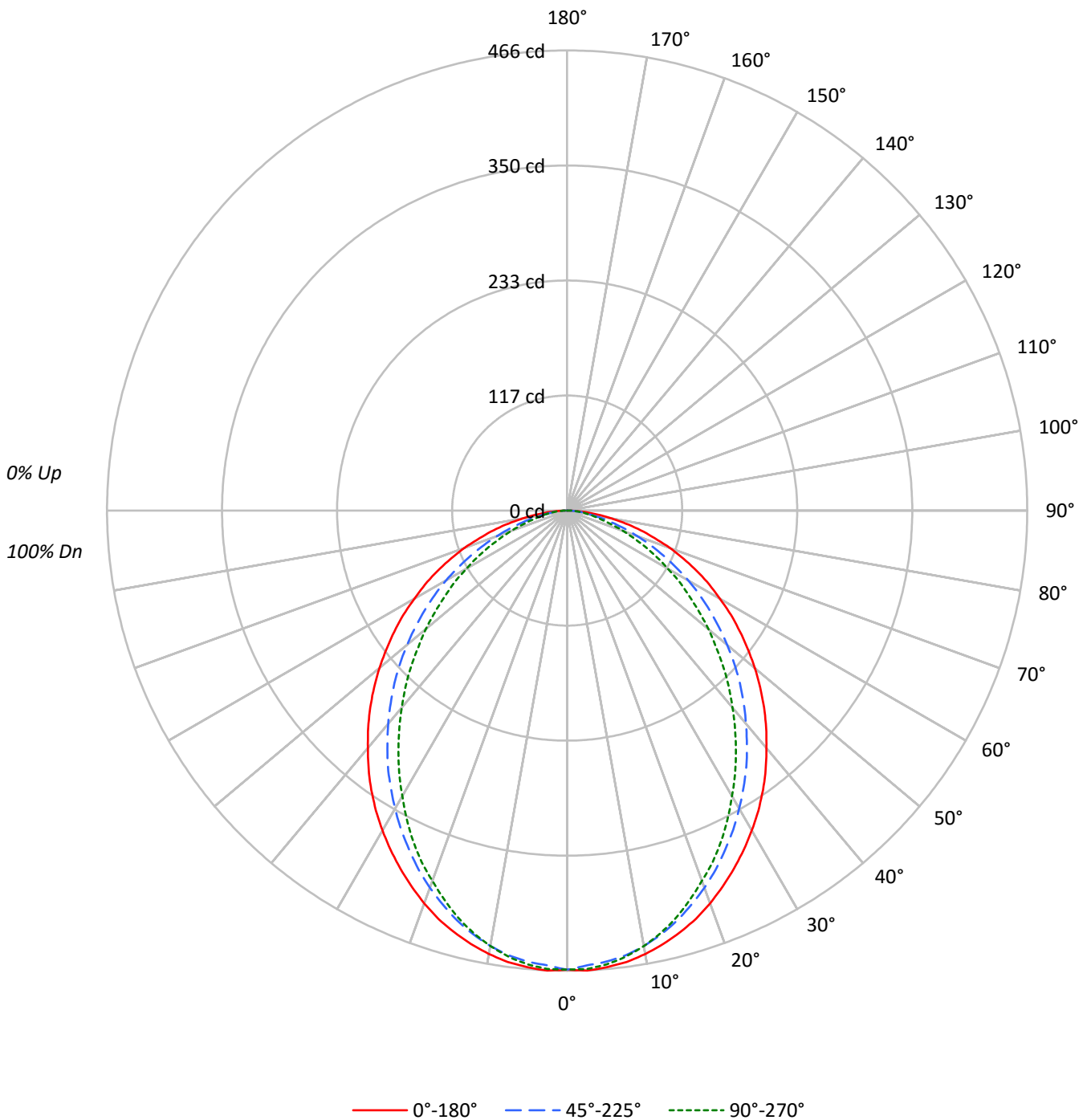
Input Watts (W): 11.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4132	4132	4132
5°	4142	4091	4116
10°	4116	4042	4042
15°	4068	3957	3928
20°	4004	3845	3775
25°	3921	3715	3620
30°	3840	3577	3427
35°	3751	3434	3234
40°	3644	3271	3024
45°	3544	3110	2811
50°	3431	2925	2585
55°	3310	2731	2339
60°	3177	2519	2089
65°	3054	2253	1842
70°	2877	1962	1565
75°	2651	1624	1271
80°	2314	1239	1167
85°	1958	1122	1050



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.7	4.1
10°-20°	121.9	11.3
20°-30°	176.0	16.4
30°-40°	199.4	18.6
40°-50°	192.6	17.9
50°-60°	160.1	14.9
60°-70°	110.5	10.3
70°-80°	55.8	5.2
80°-90°	14.2	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°	341.6	31.8
0°-40°	541.0	50.4
0°-60°	893.7	83.2
0°-90°	1074.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1074.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	465	465	465	465	465	
5°	464	463	458	462	461	44
15°	442	439	430	429	427	125
25°	400	393	379	373	369	184
35°	346	334	316	304	298	216
45°	282	269	247	230	224	217
55°	214	199	176	158	151	191
65°	145	130	107	92	88	143
75°	77	64	47	39	37	81
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°	464.9	464.9	464.9	464.9	464.9
2.5°	466.3	464.9	461.0	464.9	464.6
5°	464.2	462.8	458.5	462.1	461.3
7.5°	461.0	459.6	454.2	456.7	455.7
10°	456.0	454.2	447.8	449.2	447.8
12.5°	449.6	447.5	439.6	440.3	438.2
15°	442.1	438.9	430.0	429.3	426.8
17.5°	433.6	429.0	418.6	416.9	413.3
20°	423.3	418.6	406.5	403.7	399.1
22.5°	411.9	406.5	393.4	388.7	385.2
25°	399.8	393.4	378.8	372.7	369.1
27.5°	387.3	379.5	364.2	357.0	352.1
30°	374.1	365.2	348.5	339.6	333.9
32.5°	360.3	349.9	332.5	321.8	316.5
35°	345.7	334.3	316.5	304.4	298.0
37.5°	330.3	318.6	299.0	285.9	279.4
40°	314.0	302.2	281.9	267.0	260.6
42.5°	298.3	285.9	264.5	249.2	242.4
45°	281.9	268.8	247.4	230.0	223.6
47.5°	265.2	251.7	229.6	211.5	204.3
50°	248.1	234.2	211.5	193.7	186.9
52.5°	230.7	217.1	193.7	175.5	168.4
55°	213.6	199.3	176.2	157.7	150.9
57.5°	196.9	181.9	159.1	140.3	135.3
60°	178.7	164.5	141.7	123.2	117.5
62.5°	162.3	147.4	123.9	107.1	102.9
65°	145.2	129.9	107.1	91.8	87.6
67.5°	127.4	112.8	91.5	78.0	73.0
70°	110.7	95.8	75.5	63.7	60.2
72.5°	92.9	79.7	60.9	51.3	48.1
75°	77.2	64.1	47.3	39.2	37.0
77.5°	60.9	49.5	35.2	29.5	28.8
80°	45.2	34.9	24.2	23.1	22.8
82.5°	31.7	22.4	17.4	16.7	16.4
85°	19.2	12.1	11.0	10.3	10.3
87.5°	8.2	5.3	5.0	4.6	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)