

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: P243581

Luminaire Tested: **S124RDR-H350D935-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243581
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-65)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDR-H350D935-X4F0-XX-UDD-F-W
Description: DEFINE 4 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1151.7 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.1 / 1.25
Luminous Opening: Rectangular (W 0.31' x L: 3.88' x H: 0')
CIE Type: Direct

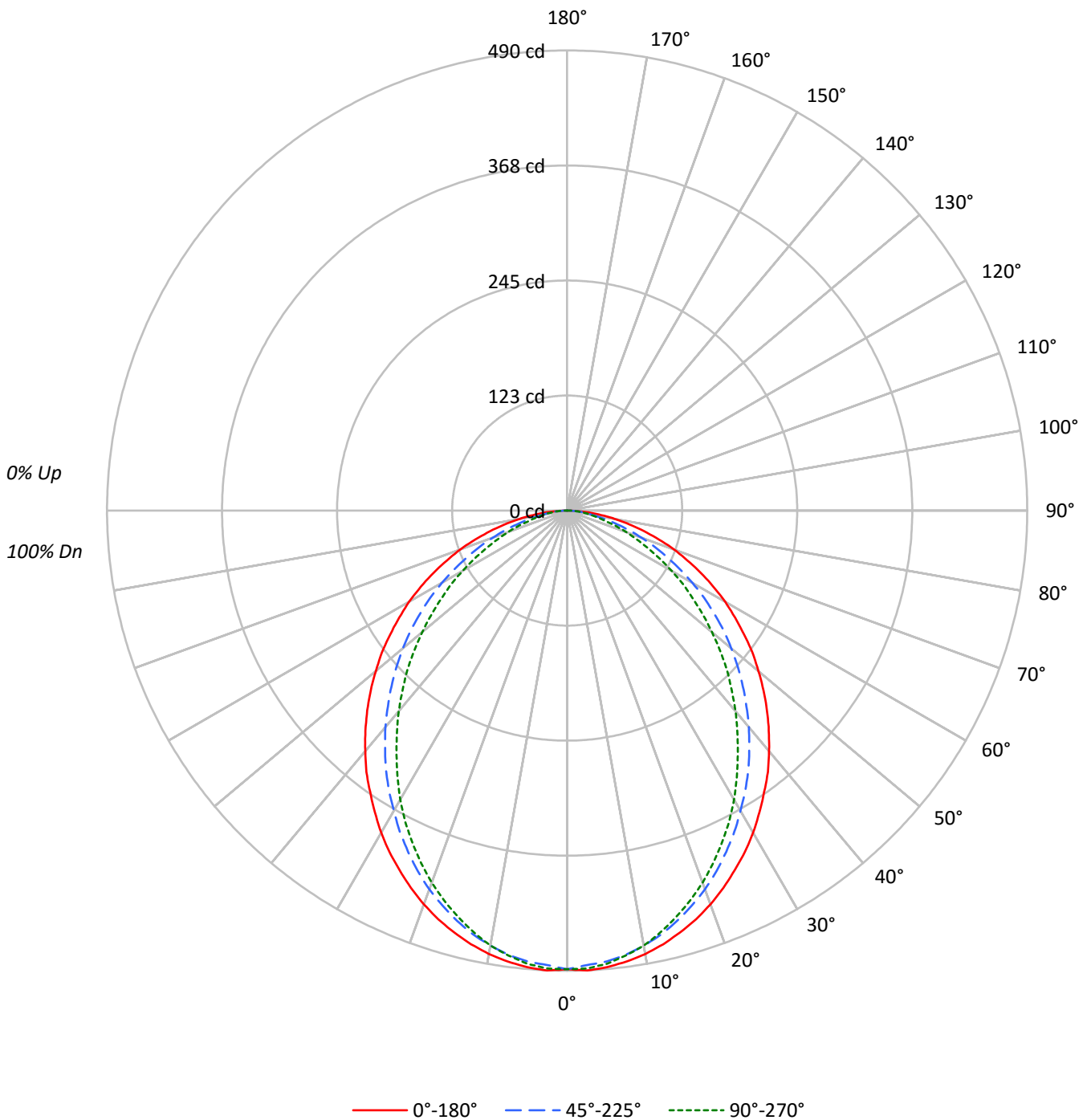
Input Watts (W): 11.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	78		84	79	76		81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72	67	64	61
4	84	73	64	58	82	71	64	57	69	62	57		67	61	56		64	59	55	53
5	78	65	57	50	76	64	56	50	62	55	49		60	54	49		58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	44		55	48	43		53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39		50	43	39		49	43	38	36
8	62	49	41	35	61	49	41	35	47	40	35		46	39	35		45	39	34	33
9	58	45	37	32	57	45	37	32	44	37	32		42	36	31		41	36	31	30
10	55	42	34	29	54	41	34	29	40	34	29		39	33	29		39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4341	4341	4341
5°	4354	4300	4322
10°	4327	4246	4246
15°	4279	4163	4123
20°	4221	4061	3989
25°	4143	3931	3825
30°	4066	3788	3648
35°	3969	3649	3438
40°	3881	3493	3237
45°	3784	3326	3027
50°	3678	3156	2781
55°	3564	2960	2535
60°	3454	2736	2281
65°	3306	2471	1994
70°	3147	2183	1733
75°	2909	1820	1412
80°	2657	1423	1290
85°	2356	1356	1285



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.9	4.0
10°-20°	128.3	11.1
20°-30°	186.0	16.2
30°-40°	212.0	18.4
40°-50°	206.3	17.9
50°-60°	173.3	15.0
60°-70°	120.7	10.5
70°-80°	62.3	5.4
80°-90°	16.8	1.5
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°	360.2	31.3
0°-40°	572.2	49.7
0°-60°	951.8	82.6
0°-90°	1151.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1151.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	488	488	488	488	488	
5°	488	487	482	486	484	46
15°	465	461	452	452	448	131
25°	422	414	401	395	390	195
35°	366	355	336	324	317	229
45°	301	287	265	248	241	232
55°	230	215	191	172	164	206
65°	157	142	118	101	95	156
75°	85	72	53	44	41	90
85°	23	15	13	13	13	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	488.4	488.4	488.4	488.4	488.4
2.5°	490.2	488.8	484.4	488.4	488.0
5°	488.0	486.6	481.9	485.5	484.4
7.5°	484.4	482.6	477.2	479.7	477.9
10°	479.4	477.6	470.4	472.2	470.4
12.5°	472.9	470.4	462.4	462.8	459.9
15°	465.0	461.4	452.4	451.6	448.0
17.5°	456.3	451.6	441.2	439.4	435.4
20°	446.2	440.5	429.3	425.3	421.7
22.5°	434.7	427.8	415.6	410.9	406.2
25°	422.4	414.5	400.8	395.0	390.0
27.5°	409.8	400.5	385.7	378.5	373.4
30°	396.1	385.3	369.1	360.8	355.4
32.5°	381.0	370.2	353.2	343.1	336.3
35°	365.8	354.7	336.3	323.7	316.8
37.5°	351.1	338.5	318.6	305.7	297.7
40°	334.5	321.2	301.0	286.2	279.0
42.5°	317.9	304.2	282.6	267.1	259.2
45°	301.0	286.6	264.6	247.6	240.8
47.5°	283.7	269.2	246.5	228.9	221.0
50°	266.0	251.6	228.2	208.7	201.1
52.5°	248.7	233.6	210.1	190.3	182.4
55°	230.0	215.2	191.0	171.6	163.6
57.5°	211.9	196.4	173.0	153.2	146.7
60°	194.3	178.8	153.9	134.8	128.3
62.5°	175.5	160.0	135.5	117.1	111.4
65°	157.2	142.0	117.5	100.6	94.8
67.5°	138.4	124.7	100.9	84.7	80.0
70°	121.1	105.6	84.0	69.9	66.7
72.5°	102.7	89.0	68.1	56.6	54.1
75°	84.7	71.7	53.0	44.3	41.1
77.5°	68.1	55.5	40.0	32.8	32.8
80°	51.9	40.7	27.8	26.0	25.2
82.5°	36.8	26.3	20.5	19.1	18.7
85°	23.1	14.8	13.3	12.6	12.6
87.5°	11.2	6.8	6.8	6.5	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)