

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: P243576

Luminaire Tested: **S124RDR-H350D930-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243576
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-H350D930-X4F0-XX-UDD-F-W
Description: DEFINE 4 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1090.6 lumens
Efficiency: N/A
Efficacy: 97.4 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

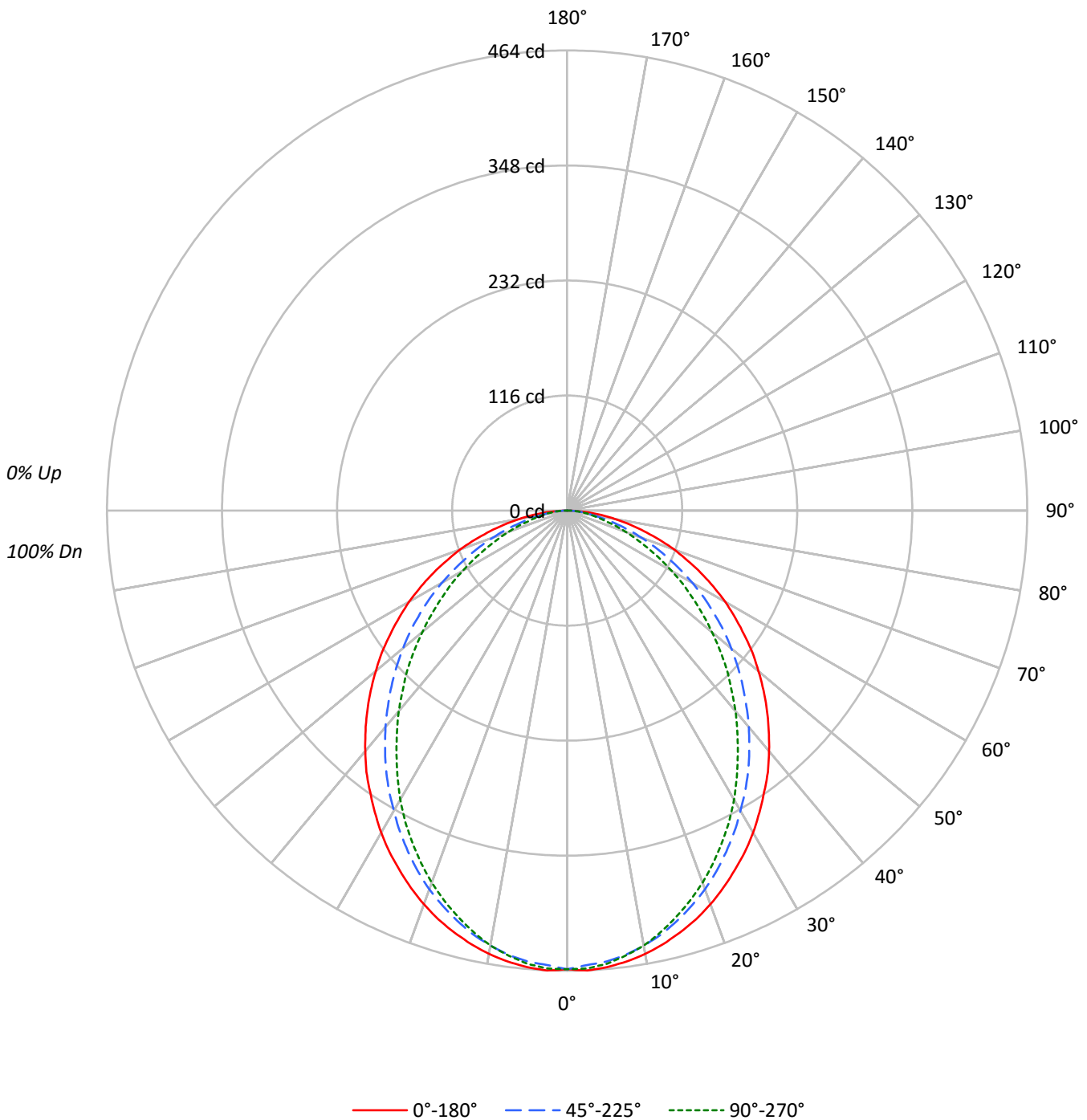
Input Watts (W): 11.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4111	4111	4111
5°	4123	4072	4093
10°	4097	4020	4020
15°	4052	3941	3904
20°	3997	3845	3777
25°	3923	3722	3622
30°	3850	3587	3454
35°	3759	3455	3255
40°	3675	3307	3066
45°	3583	3149	2866
50°	3483	2987	2634
55°	3375	2803	2402
60°	3271	2590	2160
65°	3130	2341	1889
70°	2981	2066	1640
75°	2754	1724	1336
80°	2513	1346	1223
85°	2223	1285	1214



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.5	4.0
10°-20°	121.5	11.1
20°-30°	176.1	16.2
30°-40°	200.7	18.4
40°-50°	195.3	17.9
50°-60°	164.1	15.0
60°-70°	114.3	10.5
70°-80°	59.0	5.4
80°-90°	16.0	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°	341.1	31.3
0°-40°	541.8	49.7
0°-60°	901.2	82.6
0°-90°	1090.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1090.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	462	462	462	462	462	
5°	462	461	456	460	459	44
15°	440	437	428	428	424	124
25°	400	392	380	374	369	184
35°	346	336	318	306	300	217
45°	285	271	250	234	228	220
55°	218	204	181	162	155	195
65°	149	134	111	95	90	147
75°	80	68	50	42	39	85
85°	22	14	13	12	12	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	462.5	462.5	462.5	462.5	462.5
2.5°	464.2	462.8	458.7	462.5	462.1
5°	462.1	460.8	456.3	459.7	458.7
7.5°	458.7	457.0	451.9	454.3	452.6
10°	453.9	452.2	445.4	447.1	445.4
12.5°	447.8	445.4	437.9	438.2	435.5
15°	440.3	436.9	428.3	427.7	424.2
17.5°	432.1	427.7	417.8	416.1	412.3
20°	422.5	417.1	406.5	402.7	399.3
22.5°	411.6	405.1	393.5	389.1	384.7
25°	400.0	392.5	379.5	374.1	369.3
27.5°	388.1	379.2	365.2	358.4	353.6
30°	375.1	364.9	349.5	341.7	336.5
32.5°	360.8	350.5	334.5	324.9	318.4
35°	346.4	335.8	318.4	306.5	300.0
37.5°	332.4	320.5	301.7	289.4	281.9
40°	316.7	304.1	285.0	271.0	264.2
42.5°	301.0	288.1	267.6	252.9	245.4
45°	285.0	271.3	250.5	234.5	228.0
47.5°	268.6	255.0	233.5	216.7	209.2
50°	251.9	238.2	216.0	197.6	190.5
52.5°	235.5	221.2	199.0	180.2	172.7
55°	217.8	203.8	180.9	162.5	155.0
57.5°	200.7	186.0	163.8	145.1	138.9
60°	184.0	169.3	145.7	127.6	121.5
62.5°	166.2	151.5	128.3	110.9	105.5
65°	148.8	134.5	111.3	95.2	89.8
67.5°	131.1	118.1	95.6	80.2	75.8
70°	114.7	100.0	79.5	66.2	63.1
72.5°	97.3	84.3	64.5	53.6	51.2
75°	80.2	67.9	50.2	42.0	38.9
77.5°	64.5	52.6	37.9	31.1	31.1
80°	49.1	38.6	26.3	24.6	23.9
82.5°	34.8	24.9	19.5	18.1	17.7
85°	21.8	14.0	12.6	11.9	11.9
87.5°	10.6	6.5	6.5	6.1	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)