

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: P243582

Luminaire Tested: **S124RDR-H575D935-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243582
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-H575D935-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: 1834.1 lumens
Efficiency: N/A
Efficacy: 106.6 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

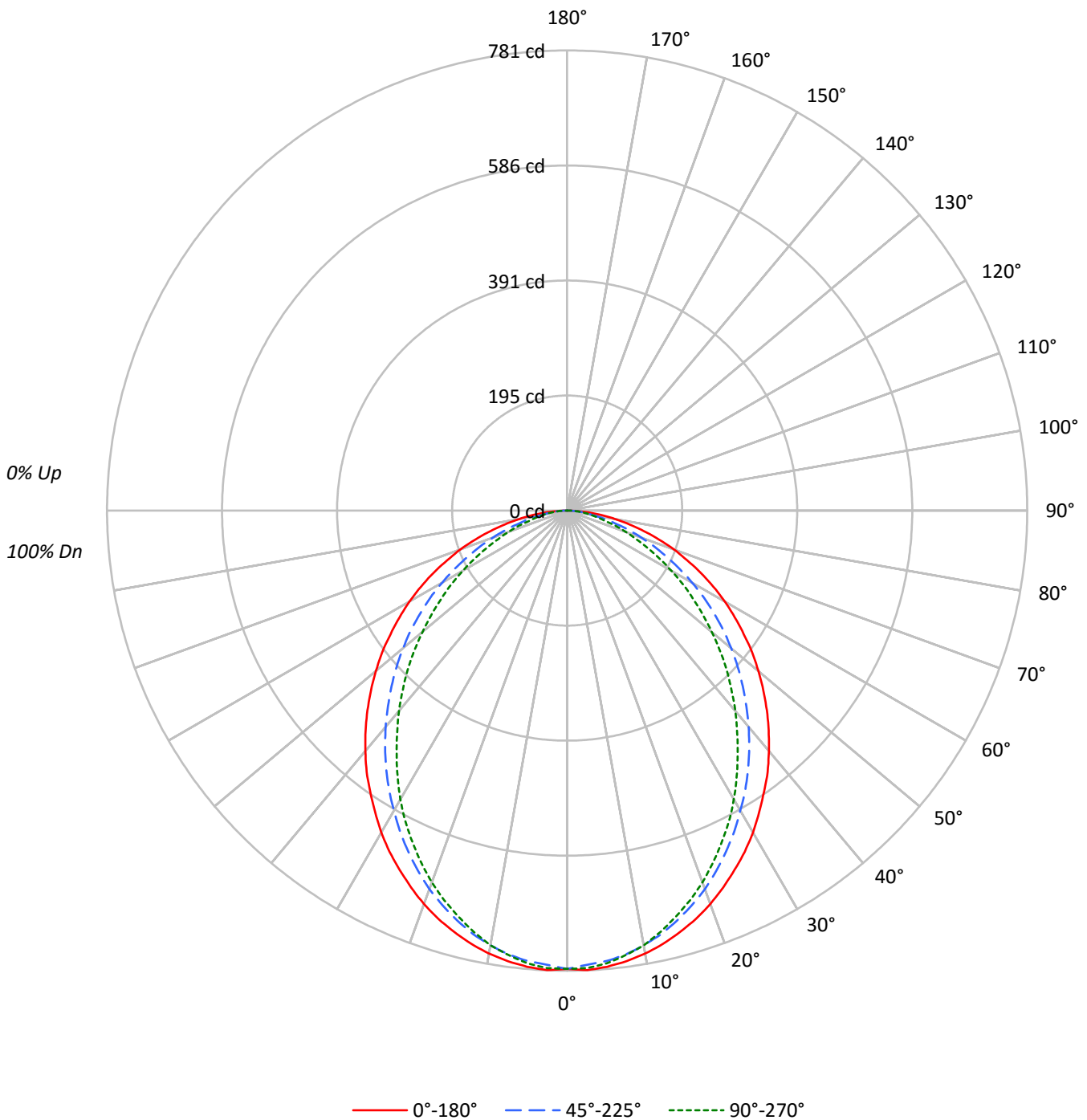
Input Watts (W): 17.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6914	6914	6914
5°	6935	6848	6884
10°	6890	6761	6761
15°	6814	6629	6566
20°	6722	6466	6353
25°	6598	6260	6092
30°	6475	6033	5809
35°	6322	5812	5476
40°	6181	5562	5156
45°	6025	5296	4820
50°	5858	5024	4429
55°	5675	4714	4039
60°	5500	4357	3632
65°	5265	3935	3176
70°	5013	3475	2760
75°	4633	2899	2246
80°	4233	2263	2058
85°	3743	2162	2050



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.2	4.0
10°-20°	204.3	11.1
20°-30°	296.2	16.2
30°-40°	337.6	18.4
40°-50°	328.5	17.9
50°-60°	276.0	15.0
60°-70°	192.2	10.5
70°-80°	99.3	5.4
80°-90°	26.8	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°	573.6	31.3
0°-40°	911.3	49.7
0°-60°	1515.7	82.6
0°-90°	1834.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1834.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	778	778	778	778	778	
5°	777	775	768	773	772	74
15°	740	735	720	719	714	209
25°	673	660	638	629	621	310
35°	583	565	536	516	505	365
45°	479	456	421	394	383	370
55°	366	343	304	273	261	328
65°	250	226	187	160	151	248
75°	135	114	84	71	65	144
85°	37	24	21	20	20	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	777.8	777.8	777.8	777.8	777.8
2.5°	780.7	778.4	771.5	777.8	777.2
5°	777.2	774.9	767.5	773.2	771.5
7.5°	771.5	768.6	760.0	764.0	761.1
10°	763.4	760.6	749.1	752.0	749.1
12.5°	753.1	749.1	736.5	737.0	732.4
15°	740.5	734.7	720.4	719.2	713.5
17.5°	726.7	719.2	702.6	699.7	693.4
20°	710.6	701.4	683.6	677.3	671.6
22.5°	692.3	681.4	661.8	654.4	646.9
25°	672.7	660.1	638.3	629.1	621.1
27.5°	652.7	637.7	614.2	602.7	594.7
30°	630.8	613.6	587.8	574.6	566.0
32.5°	606.7	589.5	562.5	546.5	535.6
35°	582.6	564.8	535.6	515.5	504.6
37.5°	559.1	539.0	507.4	486.8	474.1
40°	532.7	511.4	479.3	455.8	444.3
42.5°	506.3	484.5	450.0	425.3	412.7
45°	479.3	456.3	421.3	394.3	383.4
47.5°	451.7	428.8	392.6	364.5	351.9
50°	423.6	400.7	363.3	332.4	320.3
52.5°	396.1	372.0	334.6	303.1	290.5
55°	366.2	342.7	304.2	273.2	260.6
57.5°	337.5	312.8	275.5	244.0	233.6
60°	309.4	284.7	245.1	214.7	204.3
62.5°	279.5	254.9	215.8	186.6	177.4
65°	250.3	226.2	187.1	160.1	151.0
67.5°	220.4	198.6	160.7	134.9	127.4
70°	192.9	168.2	133.7	111.4	106.2
72.5°	163.6	141.8	108.5	90.1	86.1
75°	134.9	114.2	84.4	70.6	65.4
77.5°	108.5	88.4	63.7	52.2	52.2
80°	82.7	64.9	44.2	41.3	40.2
82.5°	58.5	41.9	32.7	30.4	29.8
85°	36.7	23.5	21.2	20.1	20.1
87.5°	17.8	10.9	10.9	10.3	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)