

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: P243563

Luminaire Tested: **S124RDR-H575D830-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243563
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-H575D830-X4F0-XX-UDD-F-W
Description: DEFINE 4 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2007.8 lumens
Efficiency: N/A
Efficacy: 116.7 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

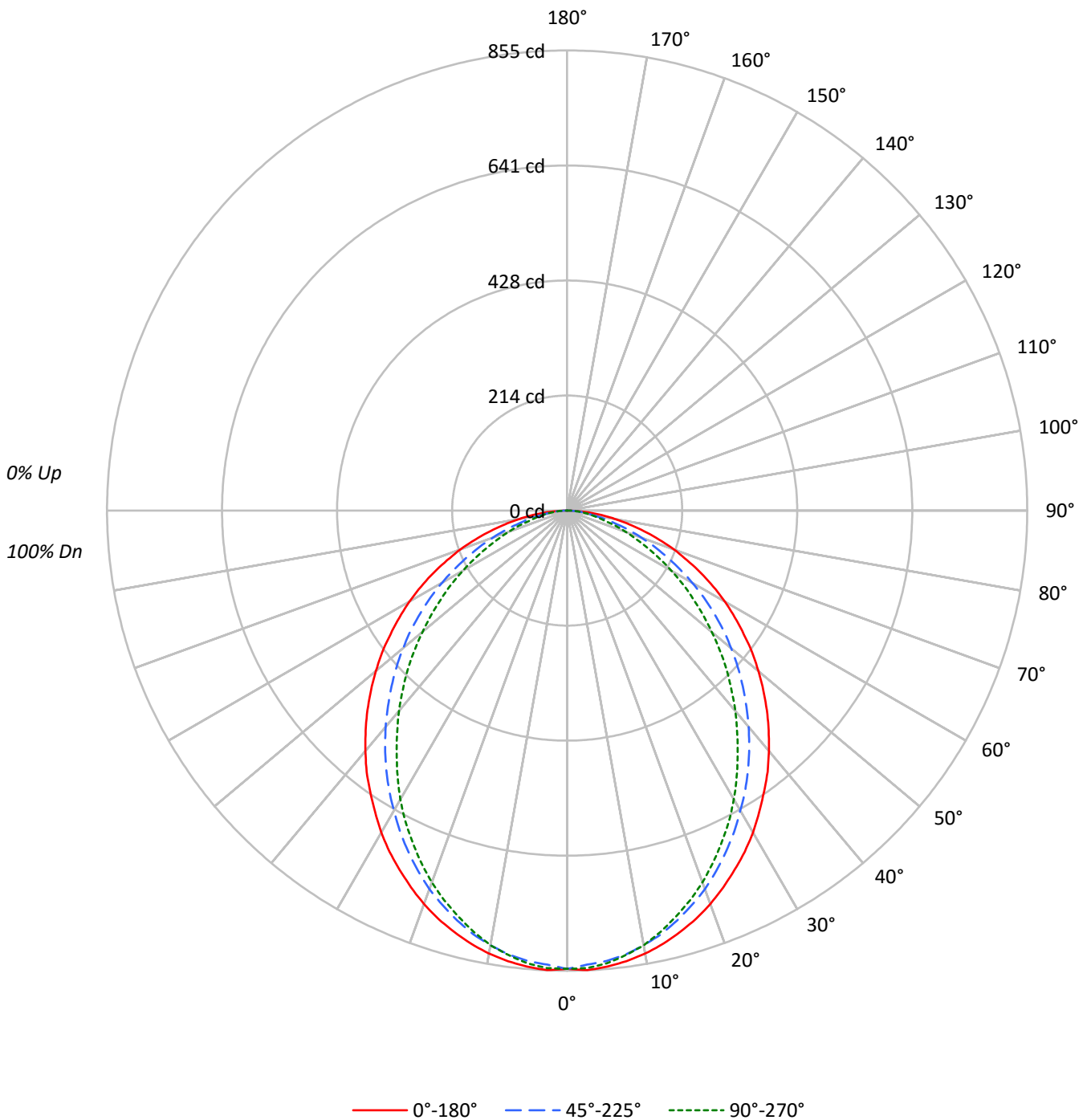
Input Watts (W): 17.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7568	7568	7568
5°	7592	7496	7535
10°	7543	7401	7401
15°	7460	7257	7188
20°	7358	7079	6955
25°	7223	6854	6668
30°	7088	6605	6360
35°	6921	6362	5993
40°	6766	6088	5644
45°	6596	5798	5277
50°	6412	5501	4848
55°	6213	5161	4421
60°	6021	4770	3977
65°	5763	4310	3477
70°	5486	3805	3020
75°	5073	3173	2459
80°	4633	2478	2252
85°	4100	2366	2244



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.1	4.0
10°-20°	223.6	11.1
20°-30°	324.3	16.2
30°-40°	369.6	18.4
40°-50°	359.6	17.9
50°-60°	302.1	15.0
60°-70°	210.5	10.5
70°-80°	108.7	5.4
80°-90°	29.4	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°	628.0	31.3
0°-40°	997.6	49.7
0°-60°	1659.3	82.6
0°-90°	2007.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2007.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	851	851	851	851	851	
5°	851	848	840	846	844	81
15°	811	804	789	787	781	229
25°	736	723	699	689	680	339
35°	638	618	586	564	552	399
45°	525	500	461	432	420	405
55°	401	375	333	299	285	359
65°	274	248	205	175	165	271
75°	148	125	92	77	72	157
85°	40	26	23	22	22	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	851.4	851.4	851.4	851.4	851.4
2.5°	854.6	852.1	844.5	851.4	850.8
5°	850.8	848.3	840.1	846.4	844.5
7.5°	844.5	841.4	832.0	836.4	833.2
10°	835.7	832.6	820.0	823.2	820.0
12.5°	824.4	820.0	806.2	806.8	801.8
15°	810.6	804.3	788.6	787.4	781.1
17.5°	795.5	787.4	769.1	766.0	759.1
20°	777.9	767.9	748.4	741.5	735.2
22.5°	757.8	745.9	724.5	716.3	708.2
25°	736.5	722.6	698.8	688.7	679.9
27.5°	714.5	698.1	672.4	659.8	651.0
30°	690.6	671.7	643.5	629.0	619.6
32.5°	664.2	645.3	615.8	598.2	586.3
35°	637.8	618.3	586.3	564.3	552.3
37.5°	612.0	590.0	555.5	532.9	519.0
40°	583.1	559.9	524.7	498.9	486.4
42.5°	554.2	530.3	492.6	465.6	451.8
45°	524.7	499.6	461.2	431.7	419.8
47.5°	494.5	469.4	429.8	399.0	385.2
50°	463.7	438.6	397.8	363.8	350.6
52.5°	433.6	407.2	366.3	331.8	318.0
55°	400.9	375.1	333.0	299.1	285.3
57.5°	369.5	342.5	301.6	267.1	255.7
60°	338.7	311.7	268.3	235.0	223.7
62.5°	306.0	279.0	236.3	204.2	194.2
65°	274.0	247.6	204.9	175.3	165.3
67.5°	241.3	217.4	175.9	147.7	139.5
70°	211.1	184.1	146.4	121.9	116.2
72.5°	179.1	155.2	118.8	98.7	94.3
75°	147.7	125.0	92.4	77.3	71.6
77.5°	118.8	96.8	69.7	57.2	57.2
80°	90.5	71.0	48.4	45.2	44.0
82.5°	64.1	45.9	35.8	33.3	32.7
85°	40.2	25.8	23.2	22.0	22.0
87.5°	19.5	11.9	11.9	11.3	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)