

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: P243577

Luminaire Tested: **S124RDR-H575D930-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243577
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-H575D930-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: 1736.7 lumens
Efficiency: N/A
Efficacy: 101.0 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

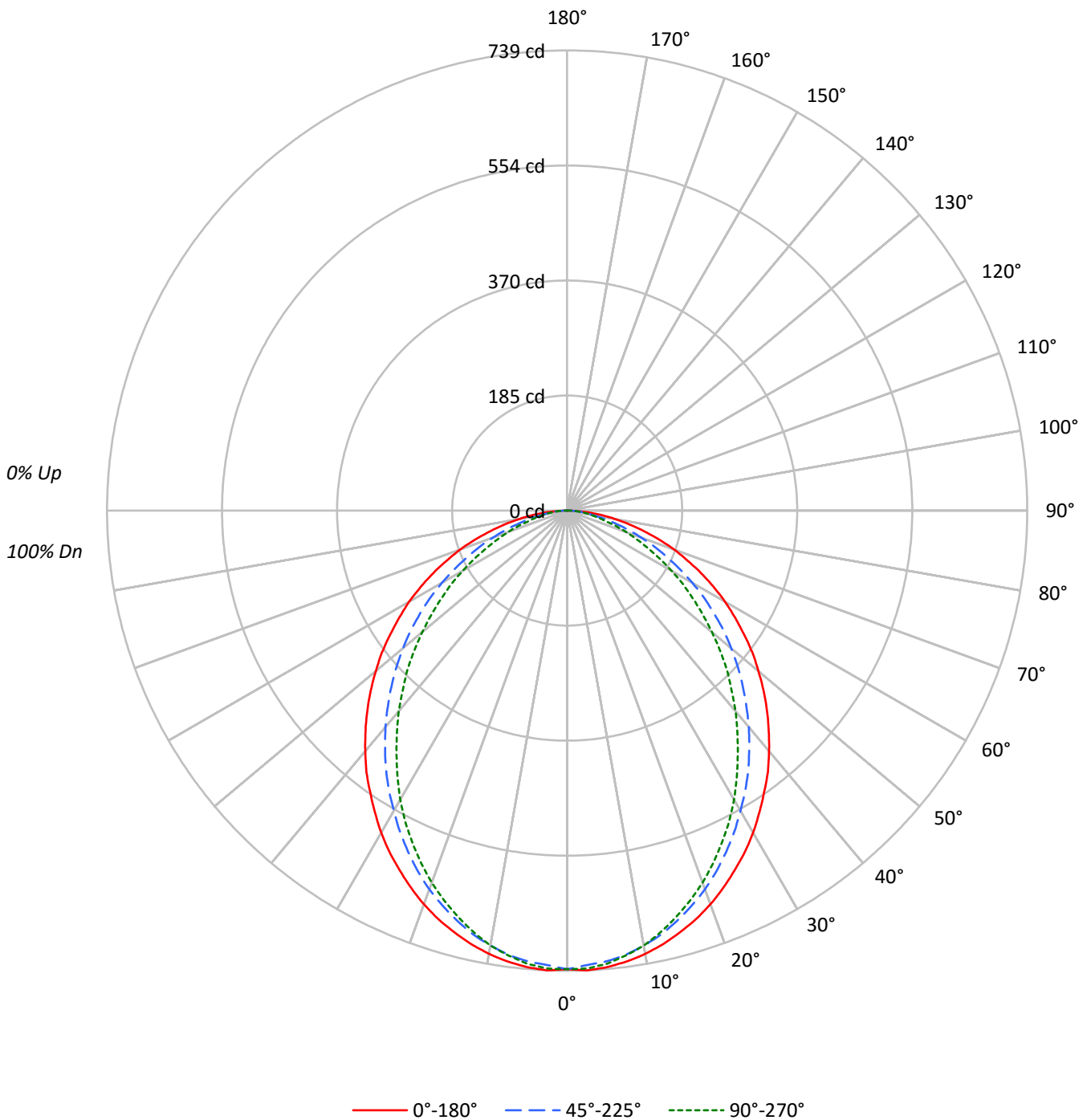
Input Watts (W): 17.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6547	6547	6547
5°	6567	6484	6518
10°	6525	6402	6402
15°	6453	6277	6217
20°	6365	6124	6015
25°	6248	5928	5768
30°	6132	5713	5500
35°	5987	5503	5185
40°	5853	5267	4882
45°	5706	5016	4564
50°	5547	4758	4194
55°	5374	4465	3825
60°	5209	4126	3440
65°	4985	3727	3008
70°	4746	3290	2615
75°	4386	2744	2129
80°	4008	2145	1945
85°	3549	2050	1938



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.3	4.0
10°-20°	193.4	11.1
20°-30°	280.5	16.2
30°-40°	319.7	18.4
40°-50°	311.1	17.9
50°-60°	261.3	15.0
60°-70°	182.1	10.5
70°-80°	94.0	5.4
80°-90°	25.4	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°	543.2	31.3
0°-40°	862.9	49.7
0°-60°	1435.3	82.6
0°-90°	1736.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1736.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	736	736	736	736	736	
5°	736	734	727	732	730	70
15°	701	696	682	681	676	198
25°	637	625	604	596	588	294
35°	552	535	507	488	478	345
45°	454	432	399	373	363	350
55°	347	324	288	259	247	310
65°	237	214	177	152	143	235
75°	128	108	80	67	62	136
85°	35	22	20	19	19	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	736.5	736.5	736.5	736.5	736.5
2.5°	739.2	737.0	730.5	736.5	736.0
5°	736.0	733.8	726.7	732.2	730.5
7.5°	730.5	727.8	719.7	723.5	720.7
10°	722.9	720.2	709.3	712.0	709.3
12.5°	713.1	709.3	697.4	697.9	693.6
15°	701.2	695.7	682.1	681.1	675.6
17.5°	688.1	681.1	665.3	662.6	656.6
20°	672.9	664.2	647.4	641.4	635.9
22.5°	655.5	645.2	626.7	619.6	612.6
25°	637.0	625.1	604.4	595.7	588.1
27.5°	618.0	603.9	581.6	570.7	563.1
30°	597.4	581.0	556.6	544.1	535.9
32.5°	574.5	558.2	532.7	517.5	507.1
35°	551.7	534.8	507.1	488.1	477.8
37.5°	529.4	510.4	480.5	460.9	449.0
40°	504.4	484.3	453.9	431.6	420.7
42.5°	479.4	458.8	426.1	402.8	390.8
45°	453.9	432.1	399.0	373.4	363.1
47.5°	427.8	406.0	371.8	345.2	333.2
50°	401.1	379.4	344.1	314.7	303.3
52.5°	375.0	352.2	316.9	287.0	275.0
55°	346.8	324.5	288.1	258.7	246.8
57.5°	319.6	296.2	260.9	231.0	221.2
60°	293.0	269.6	232.1	203.3	193.5
62.5°	264.7	241.3	204.4	176.7	168.0
65°	237.0	214.2	177.2	151.6	143.0
67.5°	208.7	188.1	152.2	127.7	120.7
70°	182.6	159.3	126.6	105.4	100.6
72.5°	154.9	134.3	102.7	85.3	81.5
75°	127.7	108.2	79.9	66.9	62.0
77.5°	102.7	83.7	60.3	49.5	49.5
80°	78.3	61.4	41.9	39.1	38.0
82.5°	55.4	39.7	31.0	28.8	28.3
85°	34.8	22.3	20.1	19.0	19.0
87.5°	16.8	10.3	10.3	9.8	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)