

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: P242717

Luminaire Tested: **S124RDR-S575D930-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242717
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-26)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDR-S575D930-X4F0-XX-UDD-F-W
Description: DEFINE 4 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1766.6 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.31' x L: 3.88' x H: 0')
CIE Type: Direct

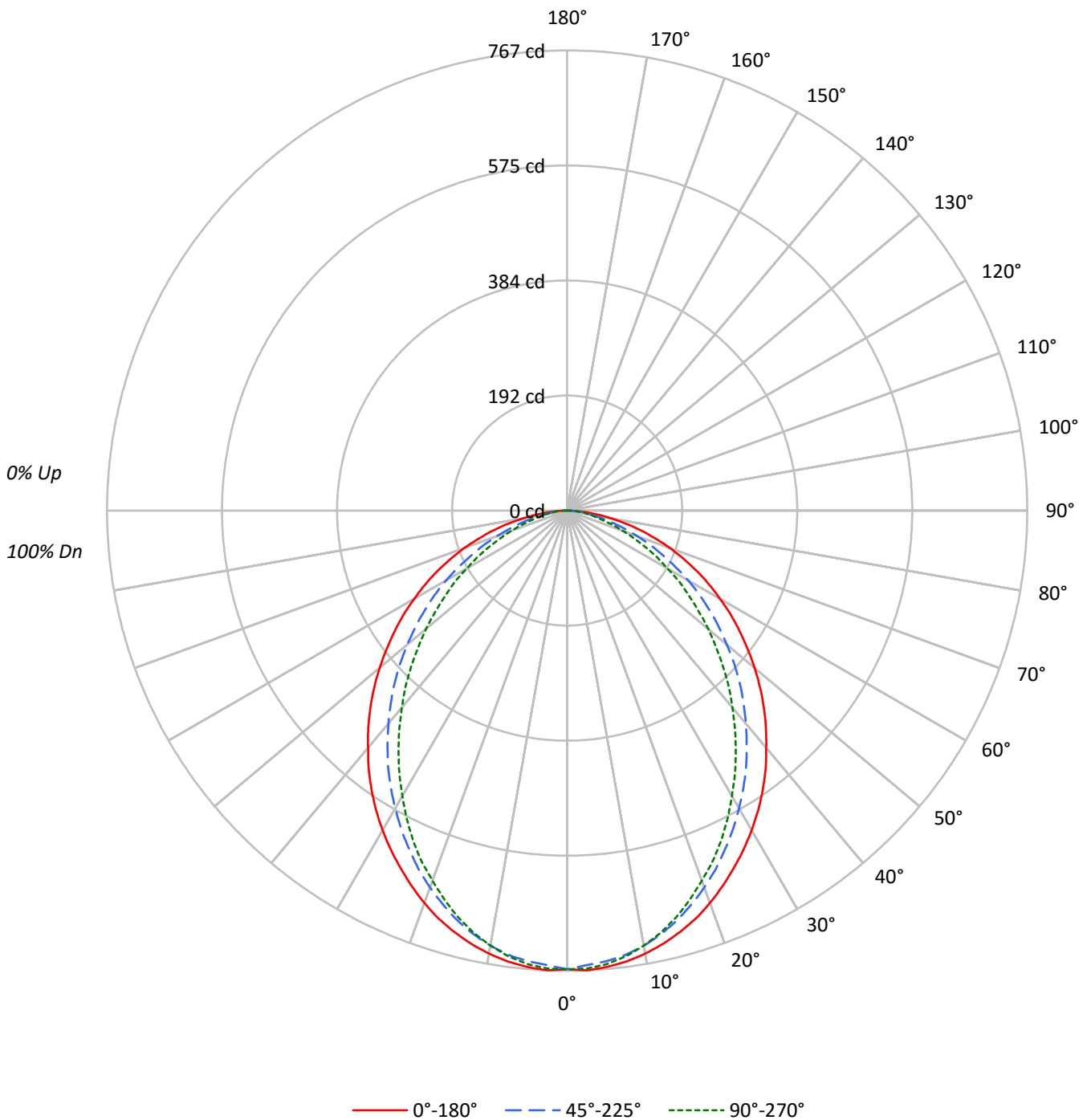
Input Watts (W): 18.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	74	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	56	54
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	35	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6796	6796	6796
5°	6812	6728	6770
10°	6769	6647	6647
15°	6691	6508	6459
20°	6584	6324	6207
25°	6448	6109	5954
30°	6315	5882	5636
35°	6168	5647	5317
40°	5991	5379	4972
45°	5828	5115	4621
50°	5642	4808	4250
55°	5443	4491	3846
60°	5225	4142	3435
65°	5023	3706	3029
70°	4733	3225	2570
75°	4362	2675	2092
80°	3803	2037	1920
85°	3223	1846	1734



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.9	4.1
10°-20°	200.4	11.3
20°-30°	289.4	16.4
30°-40°	328.0	18.6
40°-50°	316.7	17.9
50°-60°	263.3	14.9
60°-70°	181.7	10.3
70°-80°	91.8	5.2
80°-90°	23.3	1.3
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°	561.7	31.8
0°-40°	889.7	50.4
0°-60°	1469.7	83.2
0°-90°	1766.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1766.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	764	764	764	764	764	
5°	763	761	754	760	759	72
15°	727	722	707	706	702	205
25°	657	647	623	613	607	303
35°	568	550	520	500	490	355
45°	464	442	407	378	368	358
55°	351	328	290	259	248	314
65°	239	214	176	151	144	236
75°	127	105	78	64	61	134
85°	32	20	18	17	17	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	764.5	764.5	764.5	764.5	764.5
2.5°	766.9	764.5	758.1	764.5	764.0
5°	763.4	761.0	754.0	759.9	758.7
7.5°	758.1	755.8	747.0	751.1	749.3
10°	749.9	747.0	736.4	738.8	736.4
12.5°	739.4	735.9	723.0	724.1	720.6
15°	727.1	721.8	707.2	706.0	701.9
17.5°	713.0	705.4	688.4	685.5	679.7
20°	696.0	688.4	668.5	663.9	656.2
22.5°	677.3	668.5	646.9	639.3	633.4
25°	657.4	646.9	622.9	612.9	607.1
27.5°	636.9	624.0	598.9	587.2	579.0
30°	615.3	600.6	573.1	558.5	549.1
32.5°	592.4	575.5	546.8	529.2	520.4
35°	568.4	549.7	520.4	500.5	490.0
37.5°	543.3	523.9	491.7	470.1	459.5
40°	516.3	497.0	463.6	439.1	428.5
42.5°	490.6	470.1	435.0	409.8	398.7
45°	463.6	442.0	406.9	378.2	367.6
47.5°	436.1	413.9	377.6	347.7	336.0
50°	408.0	385.2	347.7	318.5	307.3
52.5°	379.3	357.1	318.5	288.6	276.9
55°	351.2	327.8	289.8	259.3	248.2
57.5°	323.7	299.1	261.7	230.6	222.5
60°	293.9	270.5	233.0	202.6	193.2
62.5°	266.9	242.4	203.7	176.2	169.2
65°	238.8	213.7	176.2	151.0	144.0
67.5°	209.6	185.6	150.4	128.2	120.0
70°	182.1	157.5	124.1	104.8	98.9
72.5°	152.8	131.1	100.1	84.3	79.0
75°	127.0	105.4	77.9	64.4	60.9
77.5°	100.1	81.4	58.0	48.6	47.4
80°	74.3	57.4	39.8	38.1	37.5
82.5°	52.1	36.9	28.7	27.5	26.9
85°	31.6	19.9	18.1	17.0	17.0
87.5°	13.5	8.8	8.2	7.6	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)