

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: P242698

Luminaire Tested: **S124RDR-S575D927-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242698
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-S575D927-X4F0-XX-UDD-F-W
Description: DEFINE 4 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1716.5 lumens
Efficiency: N/A
Efficacy: 91.3 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

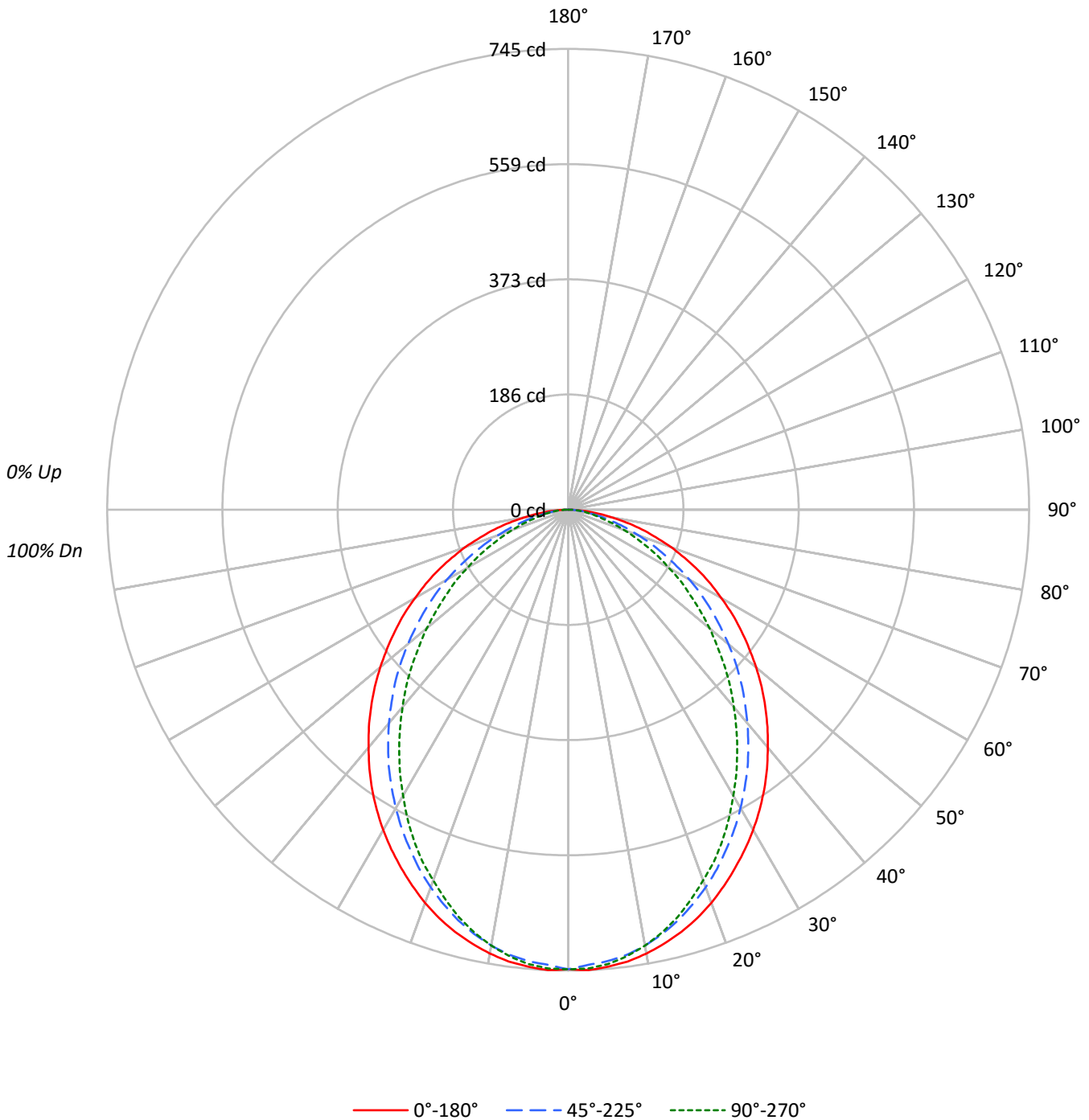
Input Watts (W): 18.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6604	6604	6604
5°	6618	6537	6578
10°	6576	6459	6459
15°	6502	6323	6276
20°	6397	6145	6031
25°	6265	5936	5786
30°	6136	5716	5476
35°	5993	5488	5166
40°	5822	5227	4832
45°	5663	4969	4490
50°	5483	4673	4129
55°	5289	4364	3738
60°	5076	4025	3337
65°	4882	3601	2943
70°	4598	3134	2498
75°	4238	2600	2033
80°	3696	1981	1863
85°	3131	1795	1683



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.9	4.1
10°-20°	194.8	11.3
20°-30°	281.2	16.4
30°-40°	318.7	18.6
40°-50°	307.7	17.9
50°-60°	255.8	14.9
60°-70°	176.6	10.3
70°-80°	89.2	5.2
80°-90°	22.7	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°	545.8	31.8
0°-40°	864.5	50.4
0°-60°	1428.0	83.2
0°-90°	1716.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1716.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	743	743	743	743	743	
5°	742	739	733	738	737	70
15°	706	701	687	686	682	199
25°	639	628	605	596	590	294
35°	552	534	506	486	476	345
45°	450	429	395	367	357	347
55°	341	318	282	252	241	305
65°	232	208	171	147	140	229
75°	123	102	76	63	59	130
85°	31	19	18	16	16	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	742.9	742.9	742.9	742.9	742.9
2.5°	745.1	742.9	736.6	742.9	742.3
5°	741.7	739.4	732.6	738.3	737.2
7.5°	736.6	734.3	725.8	729.8	728.1
10°	728.6	725.8	715.6	717.8	715.6
12.5°	718.4	715.0	702.5	703.6	700.2
15°	706.5	701.3	687.1	686.0	682.0
17.5°	692.8	685.4	668.9	666.1	660.4
20°	676.3	668.9	649.6	645.0	637.6
22.5°	658.1	649.6	628.5	621.1	615.4
25°	638.8	628.5	605.2	595.5	589.9
27.5°	618.9	606.3	581.9	570.5	562.6
30°	597.8	583.6	556.9	542.6	533.5
32.5°	575.6	559.1	531.3	514.2	505.7
35°	552.3	534.1	505.7	486.3	476.1
37.5°	527.9	509.1	477.8	456.8	446.5
40°	501.7	482.9	450.5	426.6	416.4
42.5°	476.7	456.8	422.6	398.2	387.4
45°	450.5	429.4	395.3	367.4	357.2
47.5°	423.8	402.1	366.9	337.9	326.5
50°	396.5	374.3	337.9	309.4	298.6
52.5°	368.6	347.0	309.4	280.4	269.0
55°	341.3	318.5	281.6	252.0	241.2
57.5°	314.6	290.7	254.3	224.1	216.1
60°	285.5	262.8	226.4	196.8	187.7
62.5°	259.4	235.5	197.9	171.2	164.4
65°	232.1	207.6	171.2	146.8	139.9
67.5°	203.6	180.3	146.2	124.6	116.6
70°	176.9	153.0	120.6	101.8	96.1
72.5°	148.5	127.4	97.3	81.9	76.8
75°	123.4	102.4	75.7	62.6	59.2
77.5°	97.3	79.1	56.3	47.2	46.1
80°	72.2	55.7	38.7	37.0	36.4
82.5°	50.6	35.8	27.9	26.7	26.2
85°	30.7	19.3	17.6	16.5	16.5
87.5°	13.1	8.5	8.0	7.4	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)