

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: P242708

Luminaire Tested: **S124RDR-S575D835-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242708
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-S575D835-X4F0-XX-UDD-F-W
Description: DEFINE 4 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2166.7 lumens
Efficiency: N/A
Efficacy: 115.3 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

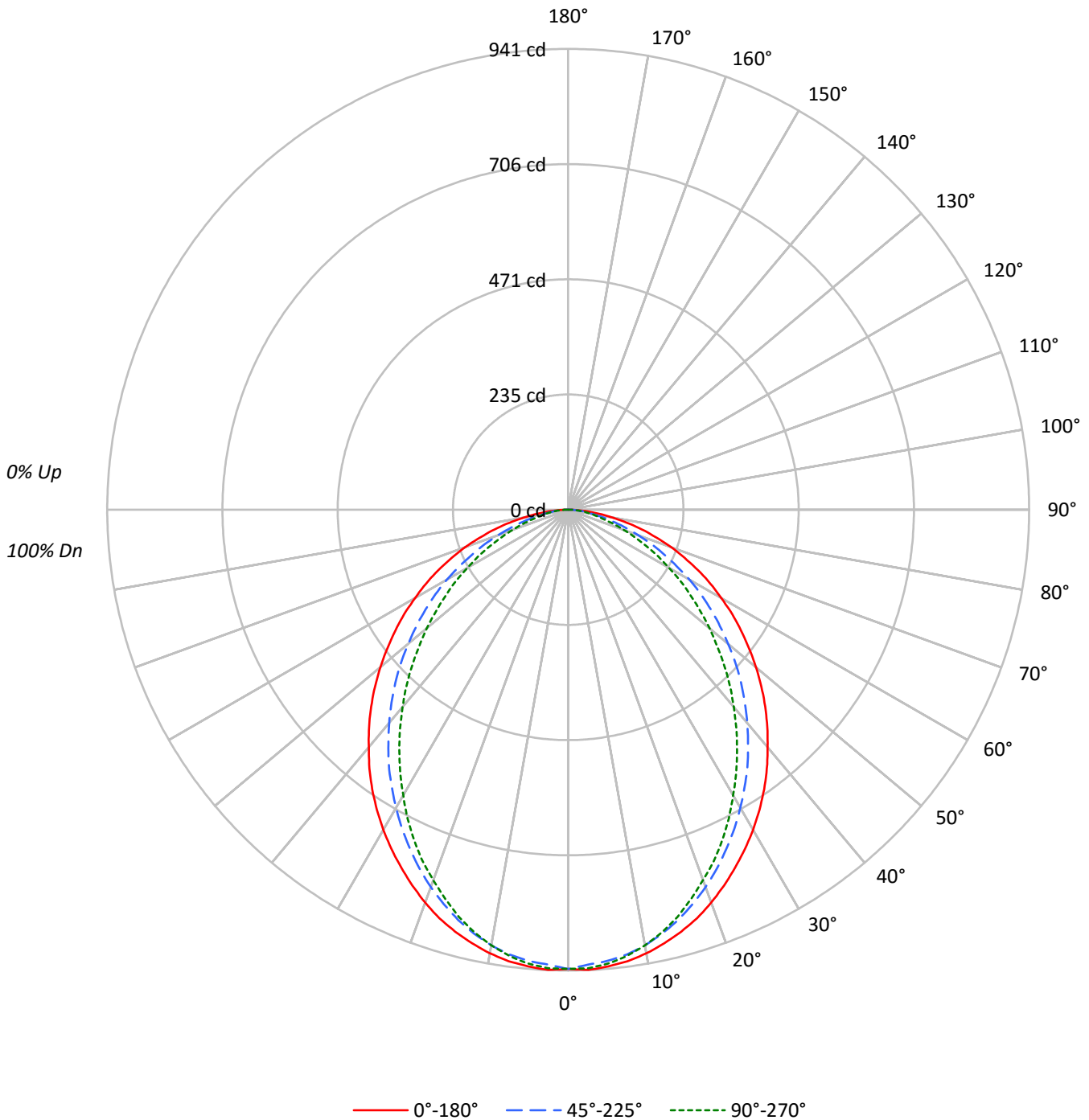
Input Watts (W): 18.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	8335	8335	8335
5°	8354	8252	8304
10°	8302	8153	8153
15°	8207	7982	7922
20°	8075	7757	7614
25°	7908	7493	7303
30°	7745	7215	6913
35°	7566	6926	6522
40°	7349	6599	6099
45°	7149	6273	5668
50°	6921	5898	5213
55°	6676	5508	4717
60°	6407	5081	4212
65°	6163	4545	3714
70°	5803	3956	3153
75°	5351	3280	2566
80°	4668	2498	2355
85°	3957	2274	2121



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.2	4.1
10°-20°	245.9	11.3
20°-30°	355.0	16.4
30°-40°	402.3	18.6
40°-50°	388.4	17.9
50°-60°	322.9	14.9
60°-70°	222.9	10.3
70°-80°	112.6	5.2
80°-90°	28.6	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°	689.0	31.8
0°-40°	1091.3	50.4
0°-60°	1802.6	83.2
0°-90°	2166.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2166.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	938	938	938	938	938	
5°	936	933	925	932	931	89
15°	892	885	867	866	861	251
25°	806	793	764	752	745	372
35°	697	674	638	614	601	436
45°	569	542	499	464	451	439
55°	431	402	355	318	304	385
65°	293	262	216	185	177	289
75°	156	129	96	79	75	164
85°	39	24	22	21	21	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	937.7	937.7	937.7	937.7	937.7
2.5°	940.6	937.7	929.8	937.7	937.0
5°	936.3	933.4	924.8	932.0	930.6
7.5°	929.8	927.0	916.2	921.2	919.1
10°	919.8	916.2	903.3	906.1	903.3
12.5°	906.9	902.6	886.8	888.2	883.9
15°	891.8	885.3	867.4	865.9	860.9
17.5°	874.6	865.2	844.4	840.8	833.6
20°	853.7	844.4	820.0	814.2	804.9
22.5°	830.8	820.0	793.4	784.1	776.9
25°	806.3	793.4	764.0	751.8	744.6
27.5°	781.2	765.4	734.5	720.2	710.1
30°	754.6	736.7	702.9	685.0	673.5
32.5°	726.6	705.8	670.6	649.1	638.3
35°	697.2	674.2	638.3	613.9	601.0
37.5°	666.3	642.6	603.1	576.6	563.7
40°	633.3	609.6	568.7	538.5	525.6
42.5°	601.7	576.6	533.5	502.6	489.0
45°	568.7	542.1	499.0	463.8	450.9
47.5°	534.9	507.6	463.1	426.5	412.1
50°	500.5	472.5	426.5	390.6	377.0
52.5°	465.3	438.0	390.6	354.0	339.6
55°	430.8	402.1	355.4	318.1	304.4
57.5°	397.1	366.9	321.0	282.9	272.8
60°	360.4	331.7	285.8	248.4	236.9
62.5°	327.4	297.3	249.9	216.1	207.5
65°	293.0	262.1	216.1	185.3	176.6
67.5°	257.1	227.6	184.5	157.2	147.2
70°	223.3	193.1	152.2	128.5	121.3
72.5°	187.4	160.8	122.8	103.4	96.9
75°	155.8	129.2	95.5	79.0	74.7
77.5°	122.8	99.8	71.1	59.6	58.2
80°	91.2	70.4	48.8	46.7	46.0
82.5°	63.9	45.2	35.2	33.7	33.0
85°	38.8	24.4	22.3	20.8	20.8
87.5°	16.5	10.8	10.1	9.3	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)