

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: P334166

Luminaire Tested: **S124DW-S575D835-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334166
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DW-S575D835-4F0-1E-UDD-F
Description: DEFINE 4 DIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
PENDANT/SURFACE/WALL MOUNT, 575 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2300.0 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Direct

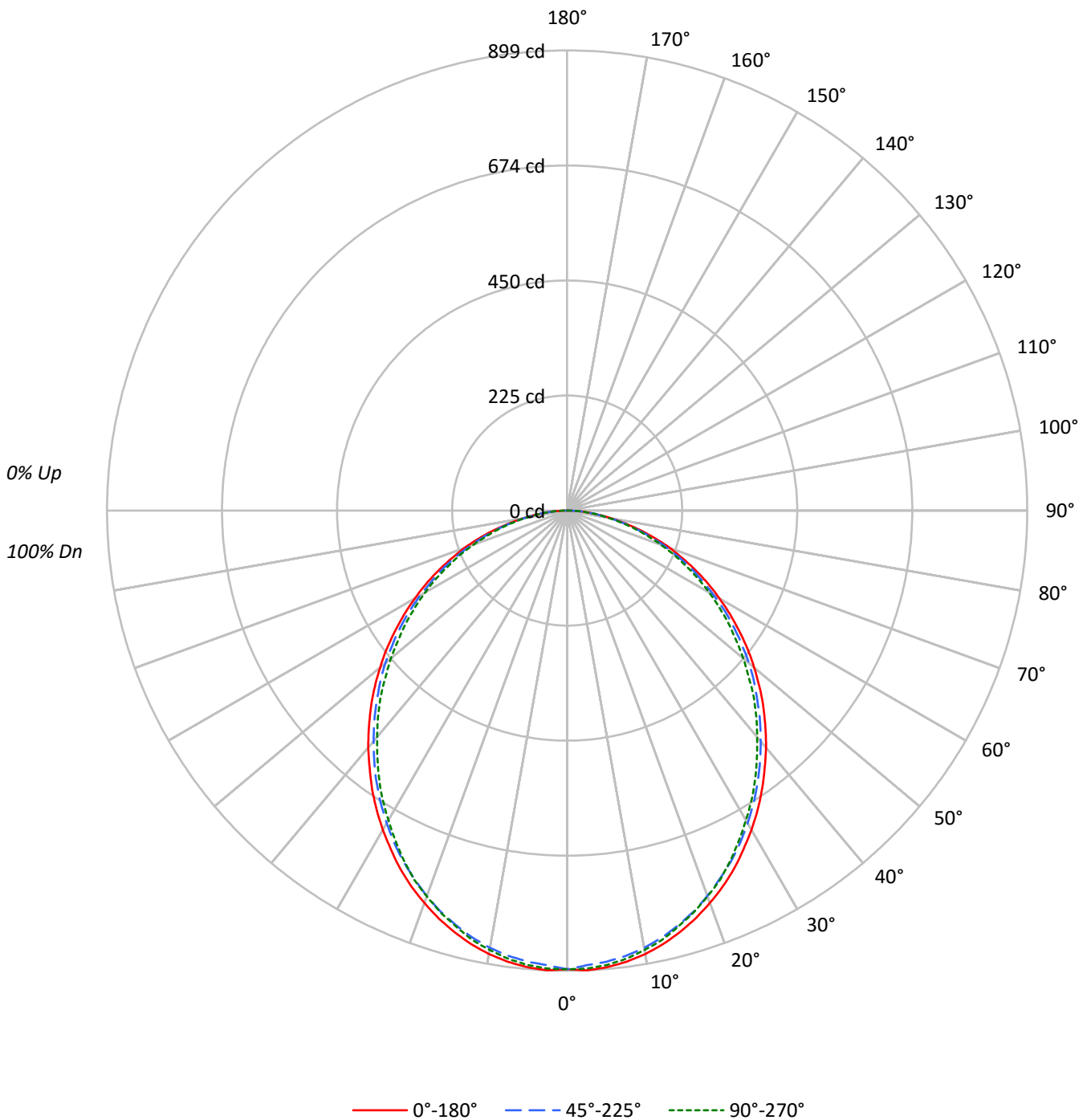
Input Watts (W): 18.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7234	7234	7234
5°	7256	7169	7221
10°	7211	7110	7146
15°	7123	7010	7027
20°	7008	6884	6890
25°	6876	6741	6722
30°	6714	6573	6512
35°	6546	6397	6312
40°	6372	6198	6084
45°	6189	6001	5885
50°	5988	5825	5645
55°	5771	5599	5417
60°	5553	5344	5183
65°	5309	5102	4896
70°	5035	4780	4593
75°	4613	4389	4276
80°	4105	3938	3840
85°	3594	3455	3390



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.5	3.7
10°-20°	238.0	10.3
20°-30°	350.2	15.2
30°-40°	407.1	17.7
40°-50°	407.0	17.7
50°-60°	356.0	15.5
60°-70°	264.3	11.5
70°-80°	150.0	6.5
80°-90°	42.9	1.9
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°	672.6	29.2
0°-40°	1079.7	46.9
0°-60°	1842.8	80.1
0°-90°	2300.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2300.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	896	896	896	896	896	
5°	895	892	885	892	891	85
15°	852	849	839	843	841	240
25°	772	767	757	758	755	355
35°	664	659	649	644	640	415
45°	542	537	526	518	516	418
55°	410	408	398	389	385	367
65°	278	274	267	260	256	275
75°	148	144	141	138	137	157
85°	39	39	37	37	37	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	896.1	896.1	896.1	896.1	896.1
2.5°	899.0	896.8	888.9	896.1	895.4
5°	895.4	892.5	884.6	892.5	891.1
7.5°	888.9	886.0	877.4	883.9	883.2
10°	879.6	876.7	867.4	873.1	871.7
12.5°	867.4	864.5	854.5	860.9	858.8
15°	852.3	849.4	838.7	843.0	840.8
17.5°	835.1	831.5	821.4	824.3	822.9
20°	815.7	812.1	801.3	803.5	802.0
22.5°	794.9	789.8	779.1	783.4	780.5
25°	771.9	766.9	756.8	757.5	754.6
27.5°	746.0	741.0	731.7	730.2	726.6
30°	720.2	714.4	705.1	702.2	698.6
32.5°	692.9	687.9	677.8	674.2	670.6
35°	664.2	659.1	649.1	644.1	640.5
37.5°	634.0	629.7	618.9	613.9	608.9
40°	604.6	598.8	588.1	580.9	577.3
42.5°	573.0	570.1	557.9	549.3	547.1
45°	542.1	537.1	525.6	517.7	515.5
47.5°	509.8	506.2	495.4	486.8	481.1
50°	476.8	473.9	463.8	453.8	449.5
52.5°	444.5	440.9	430.1	421.5	415.7
55°	410.0	407.8	397.8	389.2	384.9
57.5°	377.7	375.5	365.5	356.9	352.6
60°	343.9	340.3	331.0	324.5	321.0
62.5°	310.9	308.0	298.0	292.2	288.6
65°	277.9	274.3	267.1	259.9	256.3
67.5°	244.1	241.3	234.1	226.9	226.2
70°	213.3	208.2	202.5	196.7	194.6
72.5°	180.2	175.2	170.9	166.6	164.4
75°	147.9	144.3	140.7	137.9	137.1
77.5°	116.3	114.9	111.3	110.6	108.4
80°	88.3	86.2	84.7	83.3	82.6
82.5°	61.0	60.3	60.3	59.6	58.9
85°	38.8	38.8	37.3	37.3	36.6
87.5°	18.7	18.0	17.2	17.2	17.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)