

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: P334161

Luminaire Tested: **S124DW-S575D830-4F0-1E-UDD-F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334161  
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-S575D830-4F0-1E-UDD-F  
Description: DEFINE 4 DIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER  
PENDANT/SURFACE/WALL MOUNT, 575 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2167.8 lumens  
Efficiency: N/A  
Efficacy: 115.3 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

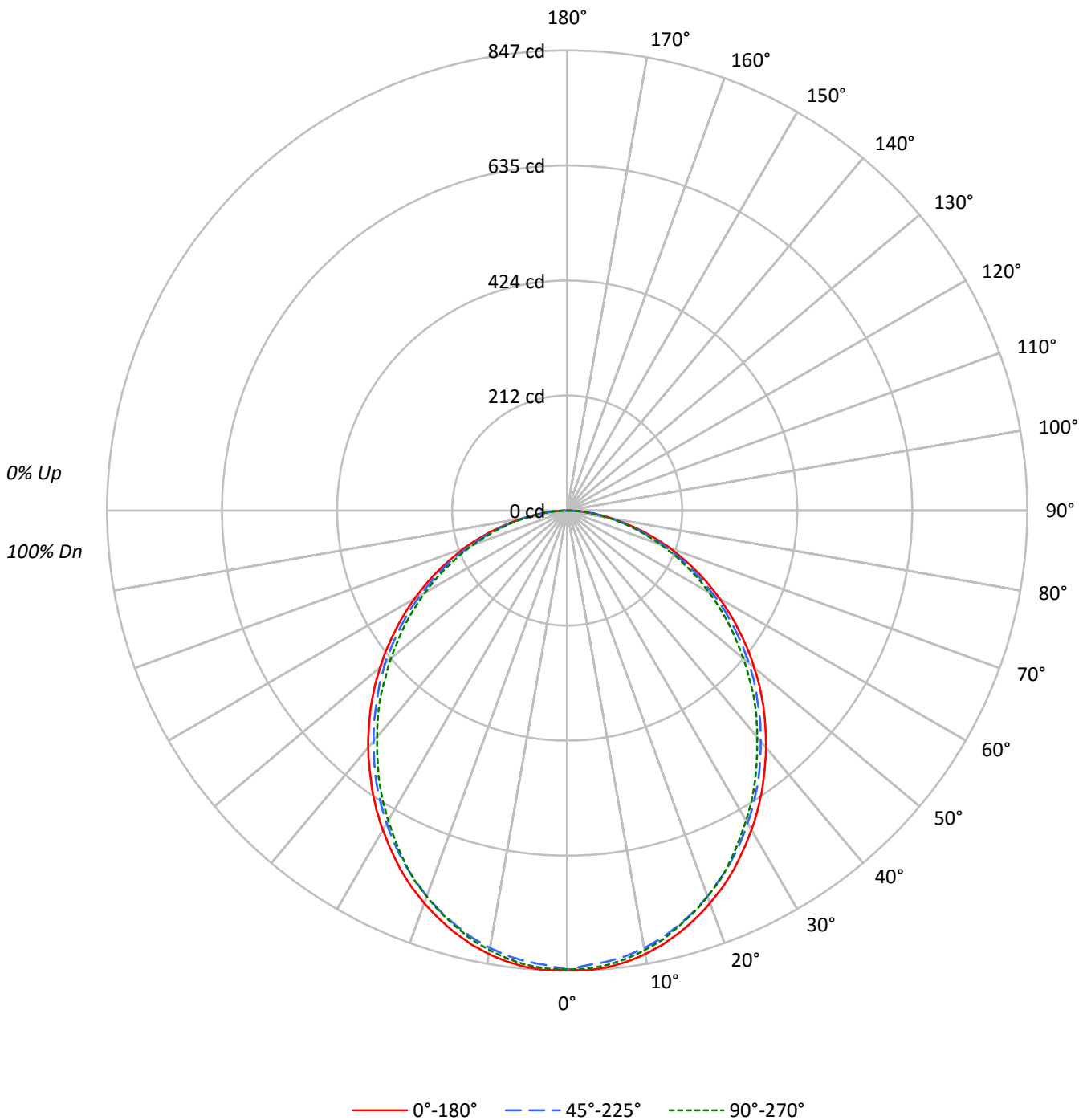
Input Watts (W): 18.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P334161

CATALOG NUMBER: S124DW-S575D830-4F0-1E-UDD-F

### Luminous Intensity Polar Plot





TEST NUMBER: P334161

CATALOG NUMBER: S124DW-S575D830-4F0-1E-UDD-F

**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°	6818	6818	6818
5°	6839	6757	6806
10°	6796	6701	6735
15°	6714	6607	6623
20°	6605	6489	6495
25°	6480	6354	6336
30°	6328	6195	6138
35°	6169	6029	5950
40°	6005	5841	5734
45°	5834	5656	5547
50°	5644	5491	5321
55°	5438	5277	5105
60°	5234	5038	4884
65°	5003	4810	4615
70°	4744	4504	4329
75°	4348	4136	4033
80°	3868	3715	3617
85°	3381	3260	3196



TEST NUMBER: P334161

CATALOG NUMBER: S124DW-S575D830-4F0-1E-UDD-F

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.6	3.7
10°-20°	224.3	10.3
20°-30°	330.1	15.2
30°-40°	383.7	17.7
40°-50°	383.7	17.7
50°-60°	335.6	15.5
60°-70°	249.1	11.5
70°-80°	141.3	6.5
80°-90°	40.5	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°	634.0	29.2
0°-40°	1017.7	46.9
0°-60°	1736.9	80.1
0°-90°	2167.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2167.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	845	845	845	845	845	
5°	844	841	834	841	840	80
15°	803	801	790	794	792	226
25°	728	723	713	714	711	335
35°	626	621	612	607	604	391
45°	511	506	495	488	486	394
55°	386	384	375	367	363	346
65°	262	258	252	245	242	259
75°	139	136	133	130	129	148
85°	36	36	35	35	34	42
90°	0	0	0	0	0	



TEST NUMBER: P334161

CATALOG NUMBER: S124DW-S575D830-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	844.6	844.6	844.6	844.6	844.6
2.5°	847.3	845.3	837.8	844.6	843.9
5°	843.9	841.2	833.8	841.2	839.9
7.5°	837.8	835.1	827.0	833.1	832.4
10°	829.0	826.3	817.5	823.0	821.6
12.5°	817.5	814.8	805.4	811.4	809.4
15°	803.3	800.6	790.5	794.5	792.5
17.5°	787.1	783.7	774.2	776.9	775.6
20°	768.8	765.4	755.3	757.3	756.0
22.5°	749.2	744.4	734.3	738.4	735.7
25°	727.5	722.8	713.3	714.0	711.3
27.5°	703.2	698.4	689.6	688.3	684.9
30°	678.8	673.4	664.6	661.9	658.5
32.5°	653.1	648.3	638.9	635.5	632.1
35°	626.0	621.3	611.8	607.1	603.7
37.5°	597.6	593.5	583.4	578.6	573.9
40°	569.8	564.4	554.3	547.5	544.1
42.5°	540.1	537.4	525.9	517.7	515.7
45°	511.0	506.2	495.4	488.0	485.9
47.5°	480.5	477.1	467.0	458.9	453.4
50°	449.4	446.7	437.2	427.7	423.7
52.5°	418.9	415.5	405.4	397.3	391.9
55°	386.4	384.4	374.9	366.8	362.7
57.5°	356.0	354.0	344.5	336.4	332.3
60°	324.2	320.8	312.0	305.9	302.5
62.5°	293.0	290.3	280.9	275.4	272.1
65°	261.9	258.5	251.8	245.0	241.6
67.5°	230.1	227.4	220.6	213.9	213.2
70°	201.0	196.3	190.8	185.4	183.4
72.5°	169.9	165.1	161.1	157.0	155.0
75°	139.4	136.0	132.6	129.9	129.3
77.5°	109.6	108.3	104.9	104.2	102.2
80°	83.2	81.2	79.9	78.5	77.8
82.5°	57.5	56.8	56.8	56.2	55.5
85°	36.5	36.5	35.2	35.2	34.5
87.5°	17.6	16.9	16.2	16.2	16.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)