

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: P333829

Luminaire Tested: **S122DW-S1005D927-4F0-1E-UDD-F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333829  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122DW-S1005D927-4F0-1E-UDD-F  
Description: DEFINE 2 DIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER  
PENDANT/SURFACE/WALL MOUNT, 1005 LUMENS PER FOOT  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3106.5 lumens  
Efficiency: N/A  
Efficacy: 75.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Direct

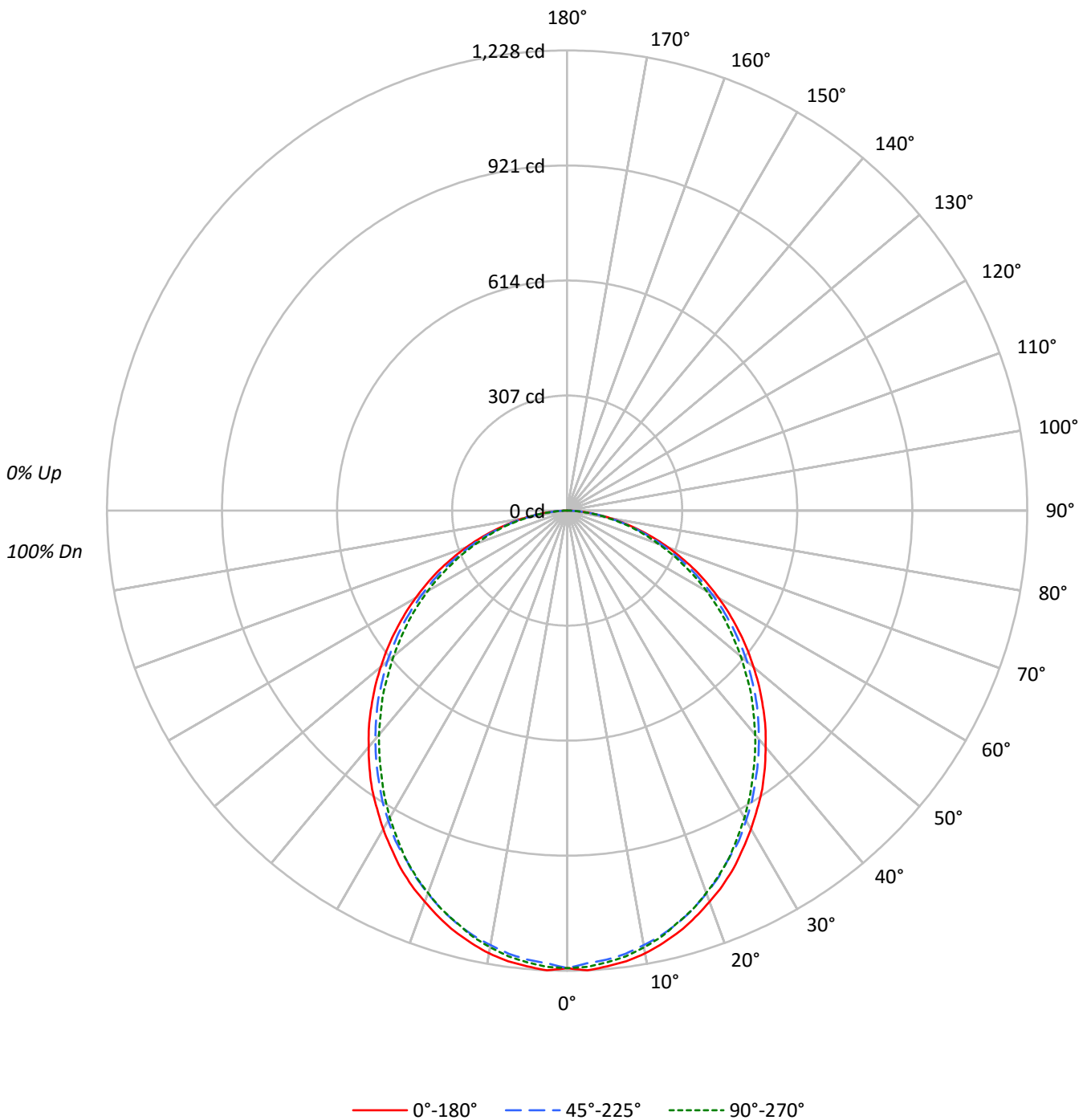
Input Watts (W): 41.1  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P333829

CATALOG NUMBER: S122DW-S1005D927-4F0-1E-UDD-F

### Luminous Intensity Polar Plot





TEST NUMBER: P333829

CATALOG NUMBER: S122DW-S1005D927-4F0-1E-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	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	49	75	63	55	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	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	53	40	33	28	39	32	27	38	32	27	37	32	27	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	19714	19714	19714
5°	19789	19504	19619
10°	19672	19307	19403
15°	19428	19056	19037
20°	19084	18680	18660
25°	18741	18218	18218
30°	18299	17795	17642
35°	17889	17286	17032
40°	17372	16777	16457
45°	16863	16274	15872
50°	16309	15749	15187
55°	15733	15136	14576
60°	15090	14405	13876
65°	14399	13681	13054
70°	13525	12803	12194
75°	12302	11790	11497
80°	10916	10590	10042
85°	8911	8485	7614



TEST NUMBER: P333829

CATALOG NUMBER: S122DW-S1005D927-4F0-1E-UDD-F

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.9	3.7
10°-20°	323.3	10.4
20°-30°	475.2	15.3
30°-40°	551.9	17.8
40°-50°	551.2	17.7
50°-60°	480.6	15.5
60°-70°	355.3	11.4
70°-80°	201.0	6.5
80°-90°	53.0	1.7
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°	913.4	29.4
0°-40°	1465.3	47.2
0°-60°	2497.2	80.4
0°-90°	3106.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3106.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1221	1221	1221	1221	1221	
5°	1221	1216	1203	1213	1210	116
15°	1162	1155	1140	1145	1139	327
25°	1052	1043	1023	1025	1023	484
35°	908	896	877	870	864	567
45°	738	730	713	700	695	570
55°	559	552	538	524	518	500
65°	377	370	358	348	342	373
75°	197	195	189	182	184	210
85°	48	47	46	42	41	56
90°	0	0	0	0	0	



TEST NUMBER: P333829

CATALOG NUMBER: S122DW-S1005D927-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1221.0	1221.0	1221.0	1221.0	1221.0
2.5°	1228.1	1222.2	1209.3	1221.0	1218.7
5°	1221.0	1216.3	1203.4	1212.8	1210.5
7.5°	1212.8	1205.8	1192.9	1202.3	1199.9
10°	1199.9	1191.7	1177.6	1187.0	1183.5
12.5°	1182.3	1175.3	1161.2	1167.0	1164.7
15°	1162.3	1155.3	1140.0	1144.7	1138.9
17.5°	1137.7	1130.6	1115.4	1121.2	1115.4
20°	1110.7	1103.6	1087.2	1090.7	1086.0
22.5°	1083.7	1073.1	1057.8	1057.8	1055.5
25°	1052.0	1042.6	1022.6	1025.0	1022.6
27.5°	1016.8	1008.5	993.3	989.7	983.9
30°	981.5	972.1	954.5	951.0	946.3
32.5°	944.0	936.9	918.1	911.1	906.4
35°	907.6	895.8	877.0	870.0	864.1
37.5°	866.5	855.9	837.1	828.9	823.0
40°	824.2	814.8	796.0	785.5	780.8
42.5°	783.1	773.7	754.9	743.2	736.1
45°	738.5	730.3	712.7	699.8	695.1
47.5°	695.1	686.8	668.0	655.1	648.1
50°	649.3	643.4	627.0	610.5	604.6
52.5°	604.6	596.4	581.2	568.3	560.0
55°	558.9	551.8	537.7	523.6	517.8
57.5°	513.1	507.2	491.9	477.8	473.2
60°	467.3	462.6	446.1	433.2	429.7
62.5°	422.7	414.4	402.7	391.0	386.3
65°	376.9	369.8	358.1	347.5	341.7
67.5°	329.9	324.0	313.5	305.3	300.6
70°	286.5	281.8	271.2	263.0	258.3
72.5°	241.9	237.2	231.3	223.1	219.6
75°	197.2	194.9	189.0	182.0	184.3
77.5°	157.3	152.6	150.3	146.8	143.2
80°	117.4	116.2	113.9	110.4	108.0
82.5°	79.8	79.8	78.7	74.0	74.0
85°	48.1	47.0	45.8	42.3	41.1
87.5°	21.1	18.8	16.4	12.9	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)