

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: P333898

Luminaire Tested: **SA2XXRDP-C865D927-4F0-1E-UDD-F**

Issue Date: 10/11/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P333898  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-24)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 10/11/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA2XXRDP-C865D927-4F0-1E-UDD-F  
Description: DEFINE 2 REGRESSED DIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER  
PENDANT/SURFACE/WALL MOUNT, 865 LUMENS PER FOOT  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2295.8 lumens  
Efficiency: N/A  
Efficacy: 66.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Direct

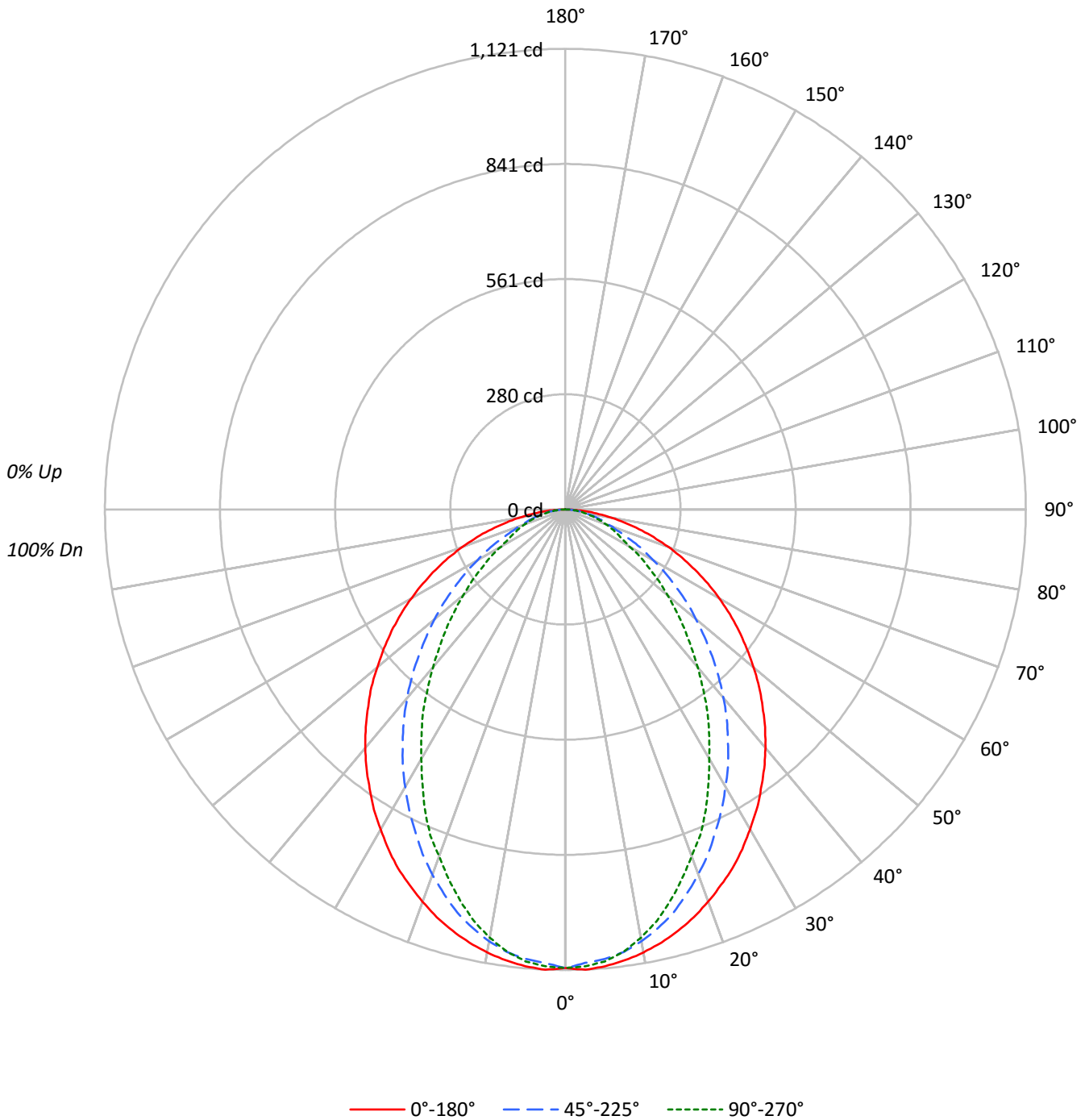
Input Watts (W): 34.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P333898

CATALOG NUMBER: SA2XXRDP-C865D927-4F0-1E-UDD-F

### Luminous Intensity Polar Plot





TEST NUMBER: P333898

CATALOG NUMBER: SA2XXRDP-C865D927-4F0-1E-UDD-F

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									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	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	100	100	100	100	100	100	100	100	100	100	100	100																
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86	86	86	86	86	86	86	86	86	86	86	86	86	86															
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74	74	74	74	74	74	74	74	74	74	74	74	74	74															
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64	64	64	64	64	64	64	64	64	64	64	64	64	64															
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	57	55	55	55	55	55	55	55	55	55	55	55	55	55	55															
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49	49	49	49	49	49	49	49	49	49	49	49	49	49															
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43	43	43	43	43	43	43	43	43	43	43	43	43	43															
7	68	56	47	42	67	55	47	42	53	46	41	52	46	41	51	45	41	39	39	39	39	39	39	39	39	39	39	39	39	39	39															
8	64	51	43	38	62	51	43	37	49	42	37	48	42	37	47	41	37	35	35	35	35	35	35	35	35	35	35	35	35	35	35															
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	44	38	34	32	32	32	32	32	32	32	32	32	32	32	32	32	32															
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29	29	29	29	29	29	29	29	29	29	29	29	29	29															

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

	0°	45°	90°
0°	18024	18024	18024
5°	18092	17797	17896
10°	17954	17506	17357
15°	17747	16988	16498
20°	17462	16247	15431
25°	17170	15406	14398
30°	16762	14540	13071
35°	16368	13600	11907
40°	15970	12627	10562
45°	15502	11533	9341
50°	15023	10429	8146
55°	14531	9241	6995
60°	13963	7992	5806
65°	13314	6716	5287
70°	12543	5533	4862
75°	11597	5041	4535
80°	10237	4510	4128
85°	8040	3557	3557



TEST NUMBER: P333898

CATALOG NUMBER: SA2XXRDP-C865D927-4F0-1E-UDD-F

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.6	4.6
10°-20°	287.2	12.5
20°-30°	403.2	17.6
30°-40°	439.5	19.1
40°-50°	404.0	17.6
50°-60°	317.3	13.8
60°-70°	206.5	9.0
70°-80°	106.3	4.6
80°-90°	27.1	1.2
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°	795.1	34.6
0°-40°	1234.6	53.8
0°-60°	1955.8	85.2
0°-90°	2295.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2295.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1116	1116	1116	1116	1116	
5°	1116	1111	1098	1107	1104	106
15°	1062	1051	1016	997	987	299
25°	964	931	865	823	808	443
35°	830	779	690	626	604	520
45°	679	611	505	433	409	524
55°	516	437	328	268	248	461
65°	348	267	176	141	138	346
75°	186	115	81	74	73	197
85°	43	22	19	19	19	52
90°	0	0	0	0	0	



TEST NUMBER: P333898

CATALOG NUMBER: SA2XXRDP-C865D927-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1116.3	1116.3	1116.3	1116.3	1116.3
2.5°	1121.4	1116.3	1105.2	1115.3	1113.3
5°	1116.3	1111.2	1098.1	1107.2	1104.2
7.5°	1107.2	1101.1	1087.0	1091.0	1086.0
10°	1095.1	1088.0	1067.8	1064.8	1058.7
12.5°	1079.9	1070.8	1043.6	1037.5	1026.4
15°	1061.7	1050.6	1016.3	997.1	987.0
17.5°	1040.5	1024.4	981.9	959.7	943.6
20°	1016.3	996.1	945.6	920.3	898.1
22.5°	990.0	966.8	908.2	873.8	858.7
25°	963.8	931.4	864.8	823.3	808.2
27.5°	932.4	898.1	824.3	776.9	753.6
30°	899.1	860.7	779.9	728.4	701.1
32.5°	866.8	820.3	737.5	676.9	651.6
35°	830.4	778.9	690.0	626.3	604.1
37.5°	795.0	739.5	645.5	575.8	550.6
40°	757.7	697.1	599.1	527.3	501.1
42.5°	719.3	654.6	552.6	477.8	452.6
45°	678.9	611.2	505.1	433.4	409.1
47.5°	640.5	568.8	459.7	387.9	365.7
50°	598.1	526.3	415.2	345.5	324.3
52.5°	556.6	480.9	372.8	306.1	286.9
55°	516.2	437.4	328.3	267.7	248.5
57.5°	474.8	394.0	288.9	232.4	216.2
60°	432.4	351.6	247.5	196.0	179.8
62.5°	391.0	310.1	212.1	163.7	155.6
65°	348.5	266.7	175.8	141.4	138.4
67.5°	308.1	226.3	141.4	124.3	121.2
70°	265.7	186.9	117.2	107.1	103.0
72.5°	225.3	150.5	98.0	89.9	87.9
75°	185.9	115.2	80.8	73.7	72.7
77.5°	146.5	81.8	63.6	59.6	57.6
80°	110.1	58.6	48.5	44.4	44.4
82.5°	76.8	39.4	33.3	31.3	31.3
85°	43.4	22.2	19.2	19.2	19.2
87.5°	16.2	8.1	8.1	7.1	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)