

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: P333892

Luminaire Tested: **S122RDW-S675D840-4F0-1E-UDD-F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333892  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122RDW-S675D840-4F0-1E-UDD-F  
Description: DEFINE 2 REGRESSED DIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER  
PENDANT/SURFACE/WALL MOUNT, 675 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2295.0 lumens  
Efficiency: N/A  
Efficacy: 87.3 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

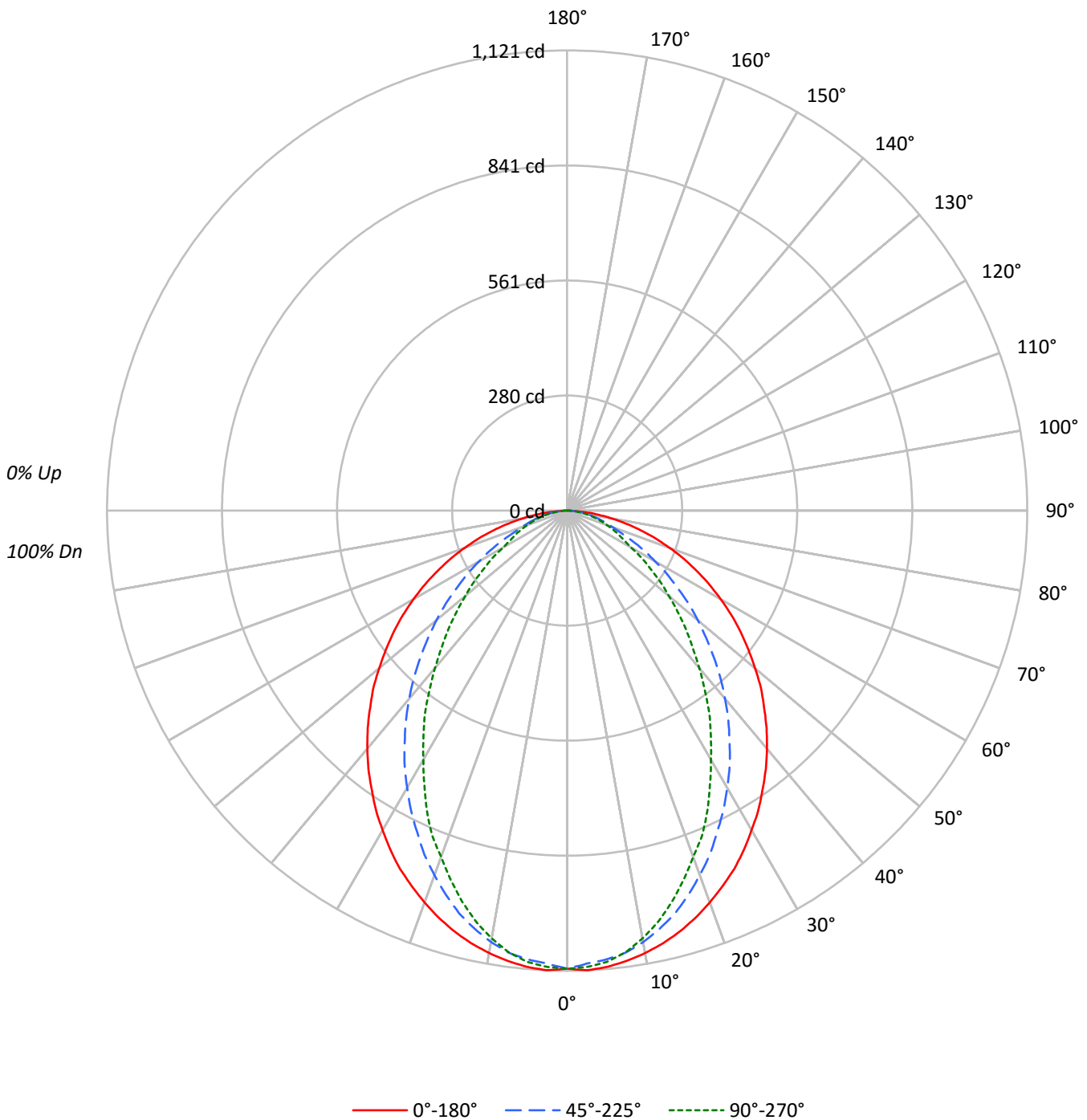
Input Watts (W): 26.3  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	18017	18017	18017
5°	18086	17791	17890
10°	17948	17500	17351
15°	17742	16981	16491
20°	17455	16240	15426
25°	17163	15399	14393
30°	16757	14535	13065
35°	16362	13594	11903
40°	15964	12621	10557
45°	15495	11529	9339
50°	15016	10427	8143
55°	14525	9239	6992
60°	13956	7989	5806
65°	13310	6712	5287
70°	12538	5528	4862
75°	11591	5041	4535
80°	10237	4510	4128
85°	8040	3557	3557



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.6	4.6
10°-20°	287.1	12.5
20°-30°	403.1	17.6
30°-40°	439.4	19.1
40°-50°	403.8	17.6
50°-60°	317.1	13.8
60°-70°	206.4	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°	794.8	34.6
0°-40°	1234.1	53.8
0°-60°	1955.1	85.2
0°-90°	2295.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2295.0	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°	1061	1050	1016	997	987	299
25°	963	931	864	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	345
75°	186	115	81	74	73	196
85°	43	22	19	19	19	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1115.9	1115.9	1115.9	1115.9	1115.9
2.5°	1120.9	1115.9	1104.8	1114.9	1112.9
5°	1115.9	1110.8	1097.7	1106.8	1103.8
7.5°	1106.8	1100.8	1086.6	1090.7	1085.6
10°	1094.7	1087.6	1067.4	1064.4	1058.3
12.5°	1079.5	1070.5	1043.2	1037.1	1026.0
15°	1061.4	1050.3	1015.9	996.7	986.6
17.5°	1040.2	1024.0	981.6	959.4	943.2
20°	1015.9	995.7	945.2	920.0	897.8
22.5°	989.7	966.4	907.9	873.5	858.4
25°	963.4	931.1	864.4	823.0	807.9
27.5°	932.1	897.8	824.0	776.6	753.4
30°	898.8	860.4	779.6	728.1	700.8
32.5°	866.5	820.0	737.2	676.6	651.4
35°	830.1	778.6	689.7	626.1	603.9
37.5°	794.8	739.2	645.3	575.6	550.4
40°	757.4	696.8	598.8	527.1	500.9
42.5°	719.0	654.4	552.4	477.7	452.4
45°	678.6	611.0	504.9	433.2	409.0
47.5°	640.3	568.6	459.5	387.8	365.6
50°	597.8	526.1	415.1	345.4	324.2
52.5°	556.4	480.7	372.6	306.0	286.8
55°	516.0	437.3	328.2	267.6	248.4
57.5°	474.6	393.8	288.8	232.3	216.1
60°	432.2	351.4	247.4	195.9	179.8
62.5°	390.8	310.0	212.1	163.6	155.5
65°	348.4	266.6	175.7	141.4	138.4
67.5°	308.0	226.2	141.4	124.2	121.2
70°	265.6	186.8	117.1	107.0	103.0
72.5°	225.2	150.5	98.0	89.9	87.9
75°	185.8	115.1	80.8	73.7	72.7
77.5°	146.4	81.8	63.6	59.6	57.6
80°	110.1	58.6	48.5	44.4	44.4
82.5°	76.7	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)