

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: P334488

Luminaire Tested: **S122IP-S925U840-4F0-1E-UDD-1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334488  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122IP-S925U840-4F0-1E-UDD-1  
Description: DEFINE 2 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER  
PENDANT MOUNT, 925 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

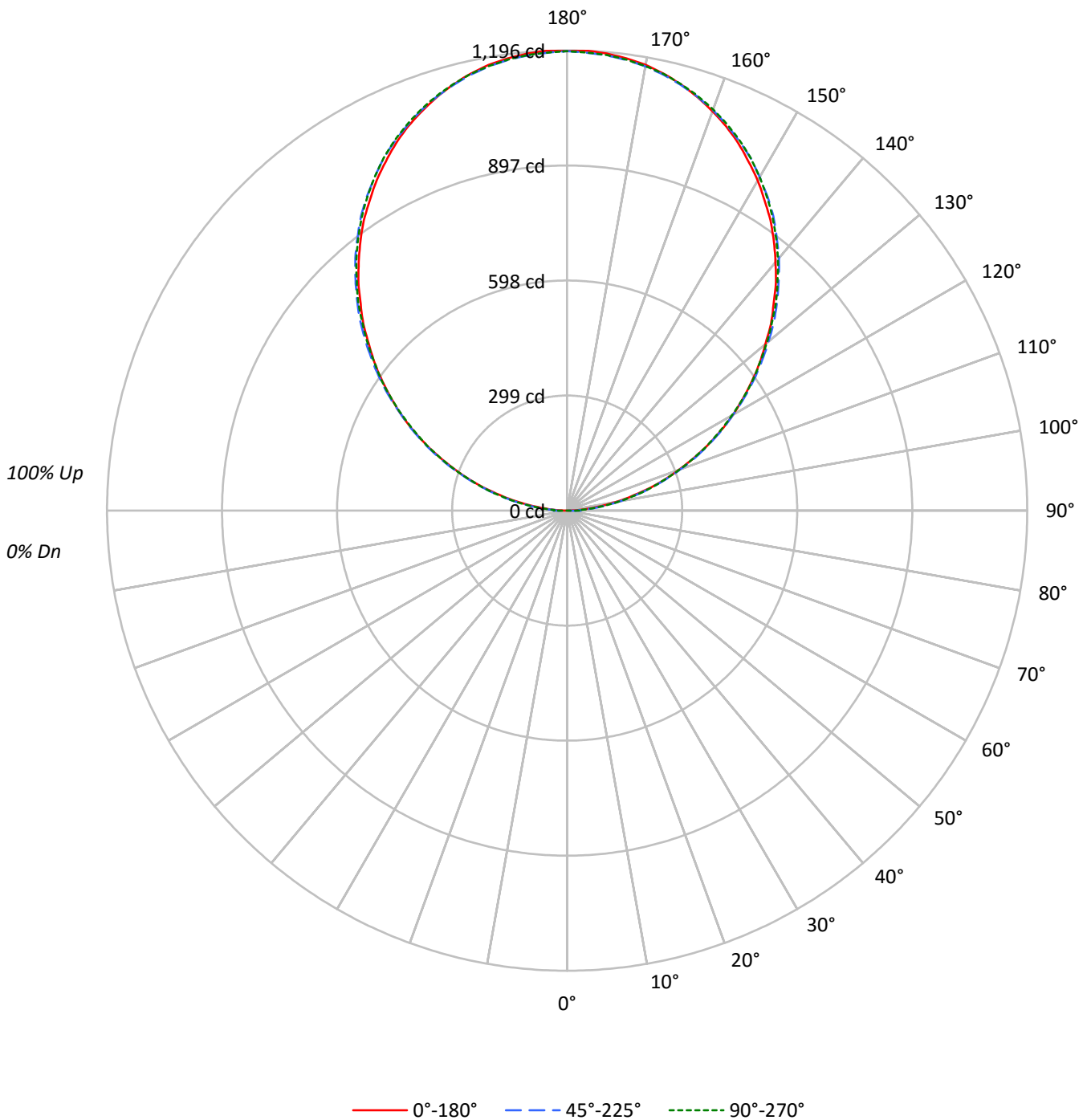
Lumens per Lamp: N/A  
Luminaire Lumens: 3342.3 lumens  
Efficiency: N/A  
Efficacy: 95.2 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Indirect

Input Watts (W): 35.1  
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



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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	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

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

	0°	45°	90°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	0	0	0
35°	0	0	0
40°	0	0	0
45°	0	0	0
50°	0	0	0
55°	0	0	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	3.4	0.1
90°-100°	73.9	2.2
100°-110°	234.9	7.0
110°-120°	401.9	12.0
120°-130°	528.5	15.8
130°-140°	593.2	17.7
140°-150°	581.8	17.4
150°-160°	488.0	14.6
160°-170°	323.7	9.7
170°-180°	113.1	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.4	0.1
90°-120°	710.6	21.3
90°-150°	2414.1	72.2
90°-180°	3339.0	99.9
0°-180°	3342.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	1	13	35	33	34	3
95°	52	62	64	64	62	59
105°	217	220	222	224	224	229
115°	403	409	407	406	403	399
125°	586	596	593	590	589	524
135°	759	770	772	771	768	586
145°	921	928	934	935	931	576
155°	1053	1056	1059	1064	1061	485
165°	1146	1145	1145	1152	1147	323
175°	1192	1189	1187	1194	1188	113
180°	1194	1194	1194	1194	1194	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	1.0	13.1	35.3	33.3	34.3
92.5°	22.2	30.2	31.2	32.2	32.2
95°	52.4	62.5	64.5	64.5	62.5
97.5°	87.7	96.7	100.8	100.8	100.8
100°	128.0	136.1	139.1	139.1	138.1
102.5°	170.3	176.4	180.4	181.4	180.4
105°	216.7	219.7	221.7	223.7	223.7
107.5°	263.0	267.1	267.1	268.1	263.0
110°	307.4	313.4	313.4	313.4	310.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	355.8	361.8	360.8	357.8	355.8
115°	403.1	409.2	407.2	406.1	403.1
117.5°	450.5	458.5	453.5	450.5	447.5
120°	497.9	505.9	497.9	497.9	494.8
122.5°	541.2	551.3	546.2	543.2	541.2
125°	586.5	595.6	592.6	589.6	588.6
127.5°	630.9	642.0	637.9	633.9	630.9
130°	672.2	685.3	683.3	681.3	677.2
132.5°	718.6	728.6	729.6	724.6	721.6
135°	758.9	770.0	772.0	771.0	767.9
137.5°	803.2	812.3	814.3	813.3	809.3
140°	842.5	851.6	856.6	856.6	852.6
142.5°	882.8	891.9	894.9	895.9	891.9
145°	921.1	928.2	934.2	935.2	931.2
147.5°	955.4	964.5	968.5	970.5	966.5
150°	990.7	996.7	1000.7	1003.8	1000.7
152.5°	1021.9	1028.0	1033.0	1037.0	1033.0
155°	1053.1	1056.2	1059.2	1064.2	1061.2
157.5°	1080.4	1082.4	1084.4	1091.4	1086.4
160°	1104.5	1106.6	1107.6	1113.6	1109.6
162.5°	1126.7	1126.7	1127.7	1134.8	1129.7
165°	1145.9	1144.9	1144.9	1151.9	1146.9
167.5°	1163.0	1160.0	1160.0	1167.0	1162.0
170°	1176.1	1173.1	1172.1	1179.1	1173.1
172.5°	1185.2	1182.1	1181.1	1188.2	1182.1
175°	1192.2	1189.2	1187.2	1194.2	1188.2
177.5°	1196.3	1193.2	1191.2	1197.3	1191.2
180°	1194.2	1194.2	1194.2	1194.2	1194.2

(END OF REPORT)