

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: P334684

Luminaire Tested: **S123IP-S1195U940-4F0-1E-UDD-1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334684  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123IP-S1195U940-4F0-1E-UDD-1  
Description: DEFINE 3 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER  
PENDANT MOUNT, 1195 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3657.2 lumens  
Efficiency: N/A  
Efficacy: 87.3 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')  
CIE Type: Indirect

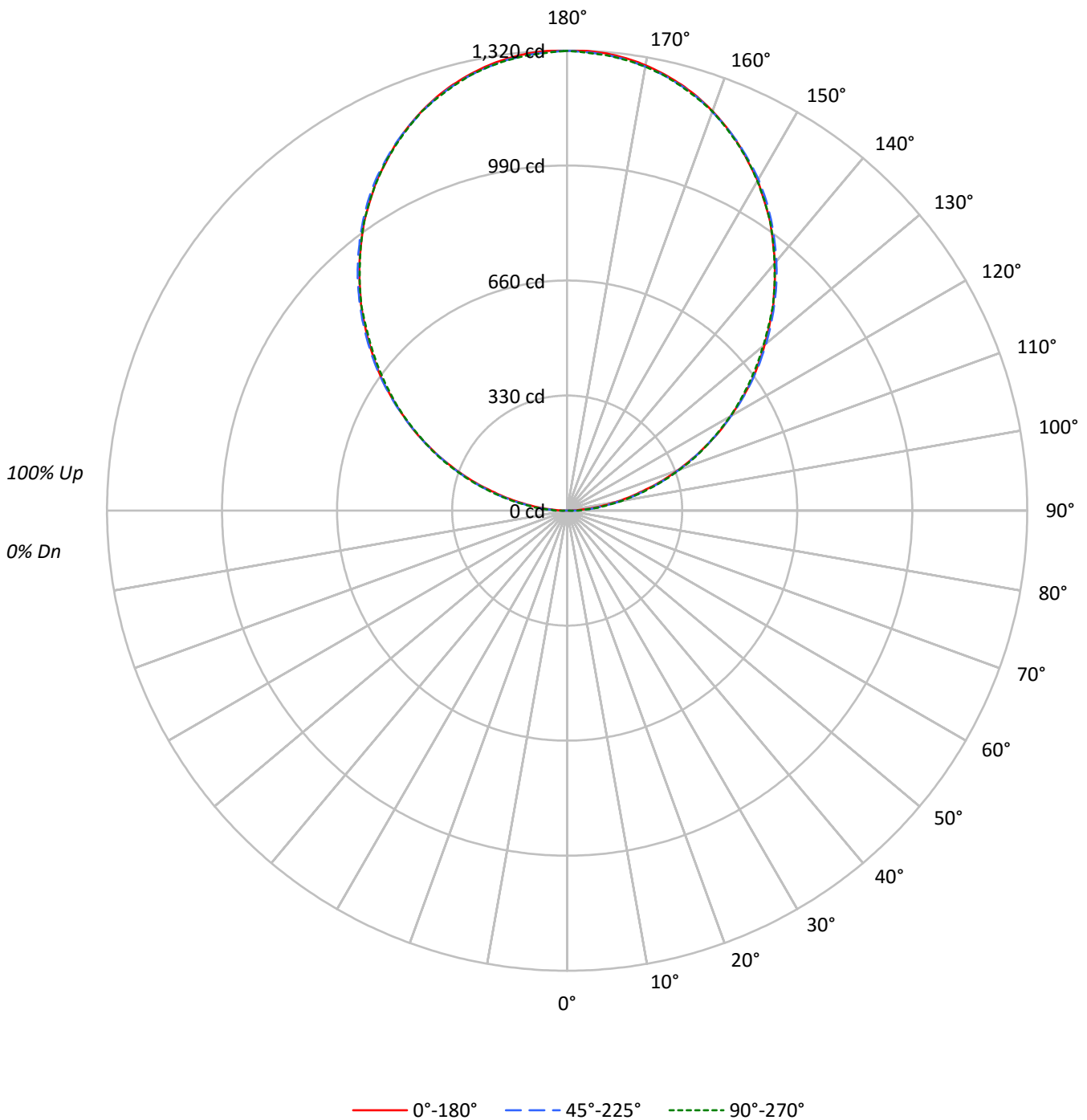
Input Watts (W): 41.9  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2.8	0.1
90°-100°	84.9	2.3
100°-110°	257.0	7.0
110°-120°	437.5	12.0
120°-130°	575.5	15.7
130°-140°	646.9	17.7
140°-150°	636.0	17.4
150°-160°	535.4	14.6
160°-170°	356.5	9.7
170°-180°	124.8	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.8	0.1
90°-120°	779.3	21.3
90°-150°	2637.8	72.1
90°-180°	3654.0	99.9
0°-180°	3657.2	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	11	25	29	31	5
95°	61	68	77	81	81	67
105°	233	235	244	244	247	250
115°	440	443	441	442	441	436
125°	644	648	646	641	637	575
135°	836	842	841	837	835	644
145°	1014	1016	1020	1018	1014	634
155°	1161	1161	1162	1167	1159	535
165°	1265	1262	1262	1268	1261	357
175°	1316	1312	1312	1318	1311	125
180°	1319	1319	1319	1319	1319	



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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	11.4	24.9	29.0	31.1
92.5°	31.1	37.3	43.5	46.6	44.6
95°	61.1	68.4	76.7	80.8	80.8
97.5°	100.5	105.7	111.9	117.1	116.0
100°	140.9	147.1	152.3	155.4	157.5
102.5°	187.5	190.6	197.9	201.0	200.0
105°	233.1	235.2	244.5	244.5	246.6
107.5°	287.0	288.0	292.2	295.3	294.2
110°	336.7	338.8	340.9	345.0	342.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	388.5	389.6	389.6	394.7	394.7
115°	440.3	443.4	441.4	442.4	441.4
117.5°	493.2	494.2	492.1	492.1	489.0
120°	541.9	548.1	542.9	541.9	539.8
122.5°	592.6	596.8	594.7	591.6	588.5
125°	644.4	647.5	645.5	641.3	637.2
127.5°	692.1	698.3	696.2	690.0	685.9
130°	739.7	748.0	744.9	740.8	733.5
132.5°	787.4	795.7	793.6	788.4	783.3
135°	836.1	842.3	841.3	837.1	835.1
137.5°	880.7	885.8	888.9	883.8	880.7
140°	927.3	932.5	933.5	932.5	925.2
142.5°	969.8	974.9	977.0	976.0	970.8
145°	1014.3	1016.4	1019.5	1018.4	1014.3
147.5°	1052.6	1056.8	1059.9	1059.9	1053.7
150°	1093.0	1095.1	1097.2	1097.2	1091.0
152.5°	1126.2	1129.3	1130.3	1132.4	1127.2
155°	1161.4	1161.4	1162.5	1166.6	1159.4
157.5°	1191.5	1190.4	1191.5	1195.6	1189.4
160°	1219.4	1217.4	1217.4	1222.6	1218.4
162.5°	1244.3	1241.2	1242.2	1247.4	1240.2
165°	1265.0	1261.9	1261.9	1268.1	1260.9
167.5°	1282.6	1278.5	1279.5	1285.8	1279.5
170°	1297.2	1293.0	1293.0	1300.3	1293.0
172.5°	1308.5	1304.4	1304.4	1310.6	1303.4
175°	1315.8	1311.7	1311.7	1317.9	1310.6
177.5°	1319.9	1315.8	1315.8	1322.0	1314.8
180°	1318.9	1318.9	1318.9	1318.9	1318.9

(END OF REPORT)