

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: P334744

Luminaire Tested: **S123IP-S1195U930-4F0-1E-UDD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334744  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123IP-S1195U930-4F0-1E-UDD  
Description: DEFINE 3 INDIRECT LED LUMINAIRE, NO LENS  
PENDANT MOUNT, 1195 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

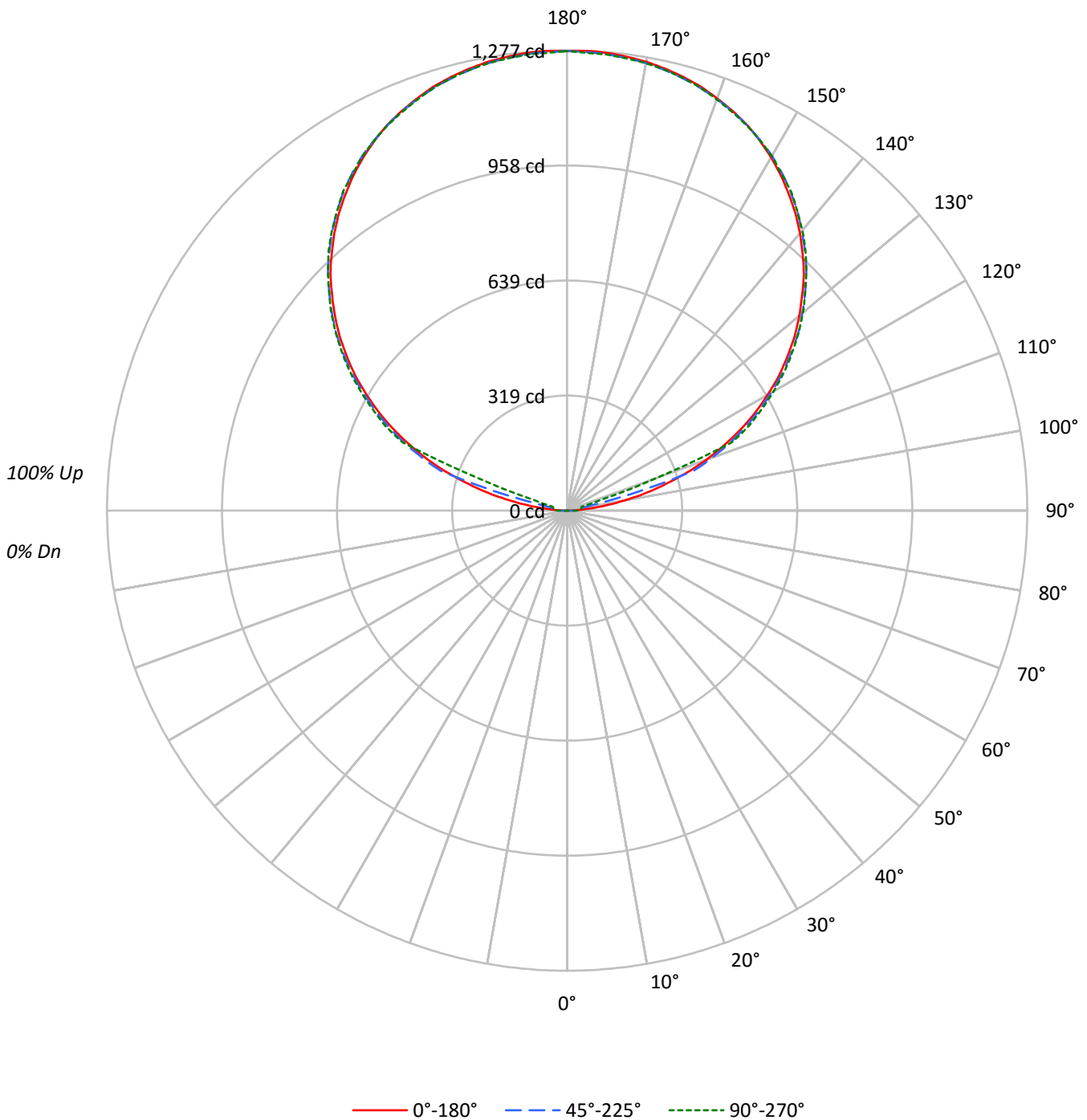
Lumens per Lamp: N/A  
Luminaire Lumens: 3889.4 lumens  
Efficiency: N/A  
Efficacy: 92.8 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')  
CIE Type: Indirect

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°	2.5	0.1
90°-100°	45.0	1.2
100°-110°	217.4	5.6
110°-120°	532.7	13.7
120°-130°	676.2	17.4
130°-140°	722.4	18.6
140°-150°	675.5	17.4
150°-160°	544.9	14.0
160°-170°	351.6	9.0
170°-180°	121.2	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.5	0.1
90°-120°	795.0	20.4
90°-150°	2869.2	73.8
90°-180°	3887.0	99.9
0°-180°	3889.4	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	10	23	26	28	3
95°	58	19	29	36	36	69
105°	282	293	207	40	42	299
115°	530	535	544	553	557	523
125°	746	754	758	760	762	667
135°	929	935	939	942	939	715
145°	1072	1079	1081	1083	1083	671
155°	1181	1179	1180	1185	1179	544
165°	1246	1243	1242	1249	1243	352
175°	1275	1270	1271	1278	1270	121
180°	1275	1275	1275	1275	1275	



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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°	0.9	10.4	22.7	26.5	28.4
92.5°	21.8	16.1	24.6	31.3	32.2
95°	57.8	18.9	29.4	36.0	36.0
97.5°	105.1	78.6	30.3	37.9	38.8
100°	160.1	179.0	31.3	38.8	39.8
102.5°	222.6	234.9	70.1	38.8	40.7
105°	282.3	292.7	207.4	39.8	41.7
107.5°	345.7	354.3	368.5	222.6	98.5
110°	409.2	416.8	427.2	395.9	260.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	469.8	476.5	486.9	495.4	493.5
115°	529.5	535.2	543.7	553.2	557.0
117.5°	588.2	594.9	599.6	607.2	608.1
120°	642.2	650.7	653.6	661.2	661.2
122.5°	697.2	703.8	707.6	712.3	713.3
125°	746.4	754.0	757.8	759.7	761.6
127.5°	795.7	803.2	808.0	810.8	808.9
130°	841.1	848.7	852.5	856.3	854.4
132.5°	884.7	892.3	895.1	898.9	896.1
135°	929.2	934.9	938.7	941.5	938.7
137.5°	967.1	974.7	976.6	981.3	979.4
140°	1005.0	1010.7	1013.5	1017.3	1015.4
142.5°	1040.1	1045.7	1048.6	1051.4	1048.6
145°	1072.3	1078.9	1080.8	1082.7	1082.7
147.5°	1103.5	1108.3	1110.1	1112.0	1107.3
150°	1131.9	1134.8	1136.7	1138.6	1135.7
152.5°	1157.5	1158.5	1159.4	1163.2	1158.5
155°	1181.2	1179.3	1180.2	1185.0	1179.3
157.5°	1200.1	1200.1	1199.2	1204.9	1197.3
160°	1217.2	1216.2	1215.3	1221.0	1214.3
162.5°	1233.3	1230.4	1229.5	1236.1	1230.4
165°	1245.6	1242.8	1241.8	1249.4	1242.8
167.5°	1256.0	1252.2	1252.2	1259.8	1252.2
170°	1264.5	1260.8	1260.8	1268.3	1260.8
172.5°	1270.2	1265.5	1266.4	1274.0	1265.5
175°	1275.0	1270.2	1271.2	1277.8	1270.2
177.5°	1276.9	1272.1	1273.1	1280.6	1271.2
180°	1275.0	1275.0	1275.0	1275.0	1275.0

(END OF REPORT)