

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: P334749

Luminaire Tested: **S123IP-S1195U935-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334749
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-S1195U935-4F0-1E-UDD
Description: DEFINE 3 INDIRECT LED LUMINAIRE, NO LENS
PENDANT MOUNT, 1195 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

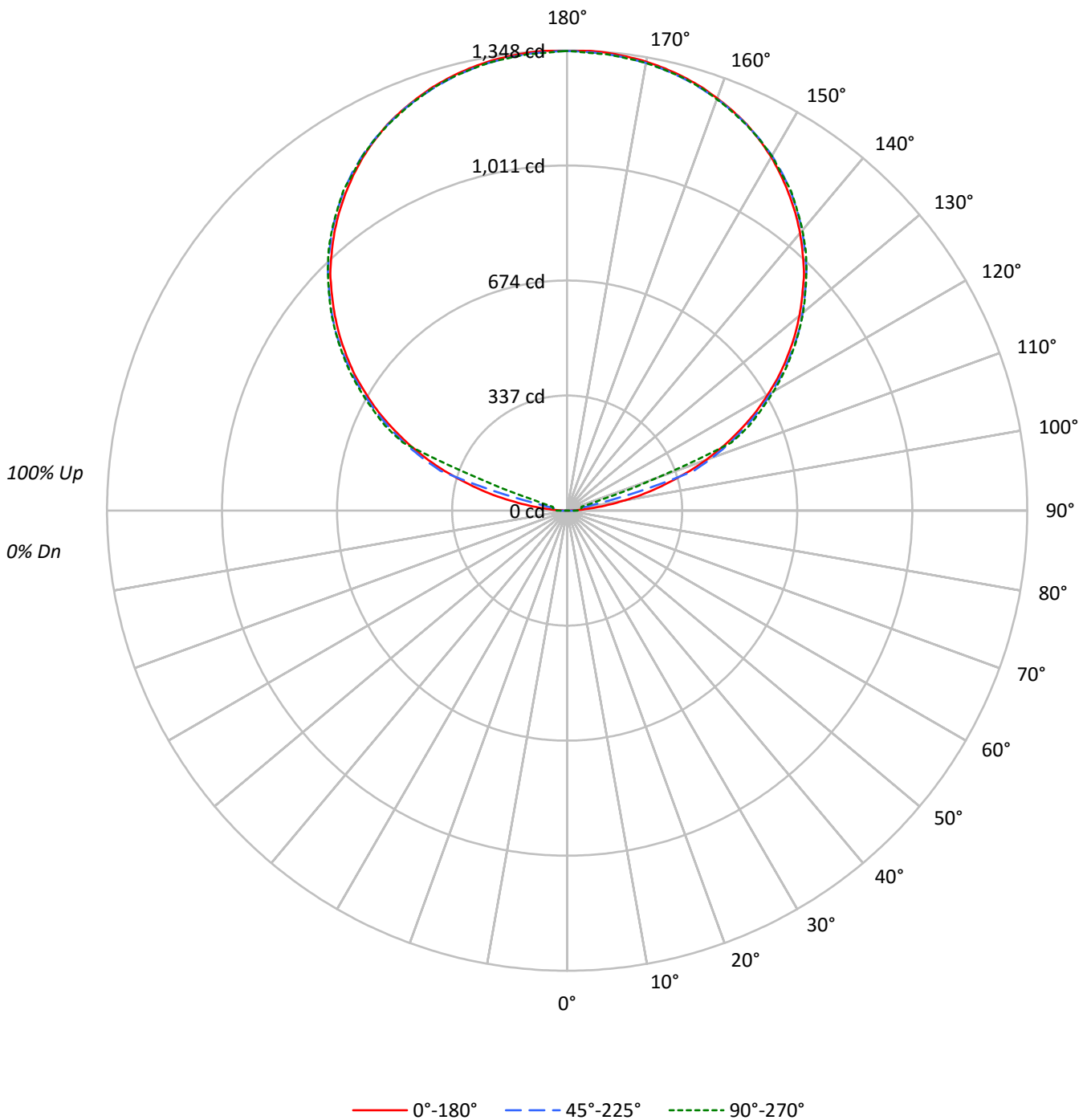
Lumens per Lamp: N/A
Luminaire Lumens: 4107.4 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 41.9
Input Voltage (V): 120
Input Current (A_{in}): 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°	2.7	0.1
90°-100°	47.5	1.2
100°-110°	229.6	5.6
110°-120°	562.5	13.7
120°-130°	714.1	17.4
130°-140°	762.9	18.6
140°-150°	713.4	17.4
150°-160°	575.4	14.0
160°-170°	371.3	9.0
170°-180°	128.0	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.7	0.1
90°-120°	839.6	20.4
90°-150°	3030.0	73.8
90°-180°	4105.0	99.9
0°-180°	4107.4	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	11	24	28	30	3
95°	61	20	31	38	38	73
105°	298	309	219	42	44	316
115°	559	565	574	584	588	552
125°	788	796	800	802	804	704
135°	981	987	991	994	991	756
145°	1132	1139	1141	1143	1143	709
155°	1247	1245	1246	1251	1245	575
165°	1315	1312	1311	1319	1312	372
175°	1346	1341	1342	1349	1341	128
180°	1346	1346	1346	1346	1346	



TEST NUMBER: P334749

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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	11.0	24.0	28.0	30.0
92.5°	23.0	17.0	26.0	33.0	34.0
95°	61.0	20.0	31.0	38.0	38.0
97.5°	111.0	83.0	32.0	40.0	41.0
100°	169.1	189.1	33.0	41.0	42.0
102.5°	235.1	248.1	74.0	41.0	43.0
105°	298.1	309.1	219.1	42.0	44.0
107.5°	365.1	374.1	389.1	235.1	104.0
110°	432.1	440.1	451.1	418.1	275.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	496.2	503.2	514.2	523.2	521.2
115°	559.2	565.2	574.2	584.2	588.2
117.5°	621.2	628.2	633.2	641.2	642.2
120°	678.2	687.2	690.2	698.2	698.2
122.5°	736.2	743.2	747.2	752.2	753.2
125°	788.3	796.3	800.3	802.3	804.3
127.5°	840.3	848.3	853.3	856.3	854.3
130°	888.3	896.3	900.3	904.3	902.3
132.5°	934.3	942.3	945.3	949.3	946.3
135°	981.3	987.3	991.3	994.3	991.3
137.5°	1021.3	1029.3	1031.3	1036.3	1034.3
140°	1061.3	1067.3	1070.3	1074.3	1072.3
142.5°	1098.3	1104.4	1107.4	1110.4	1107.4
145°	1132.4	1139.4	1141.4	1143.4	1143.4
147.5°	1165.4	1170.4	1172.4	1174.4	1169.4
150°	1195.4	1198.4	1200.4	1202.4	1199.4
152.5°	1222.4	1223.4	1224.4	1228.4	1223.4
155°	1247.4	1245.4	1246.4	1251.4	1245.4
157.5°	1267.4	1267.4	1266.4	1272.4	1264.4
160°	1285.4	1284.4	1283.4	1289.4	1282.4
162.5°	1302.4	1299.4	1298.4	1305.4	1299.4
165°	1315.4	1312.4	1311.4	1319.4	1312.4
167.5°	1326.4	1322.4	1322.4	1330.4	1322.4
170°	1335.4	1331.4	1331.4	1339.4	1331.4
172.5°	1341.4	1336.4	1337.4	1345.4	1336.4
175°	1346.4	1341.4	1342.4	1349.4	1341.4
177.5°	1348.4	1343.4	1344.4	1352.4	1342.4
180°	1346.4	1346.4	1346.4	1346.4	1346.4

(END OF REPORT)