

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: P334734

Luminaire Tested: **S123IP-S1195U840-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334734
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-S1195U840-4F0-1E-UDD
Description: DEFINE 3 INDIRECT LED LUMINAIRE, NO LENS
PENDANT MOUNT, 1195 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

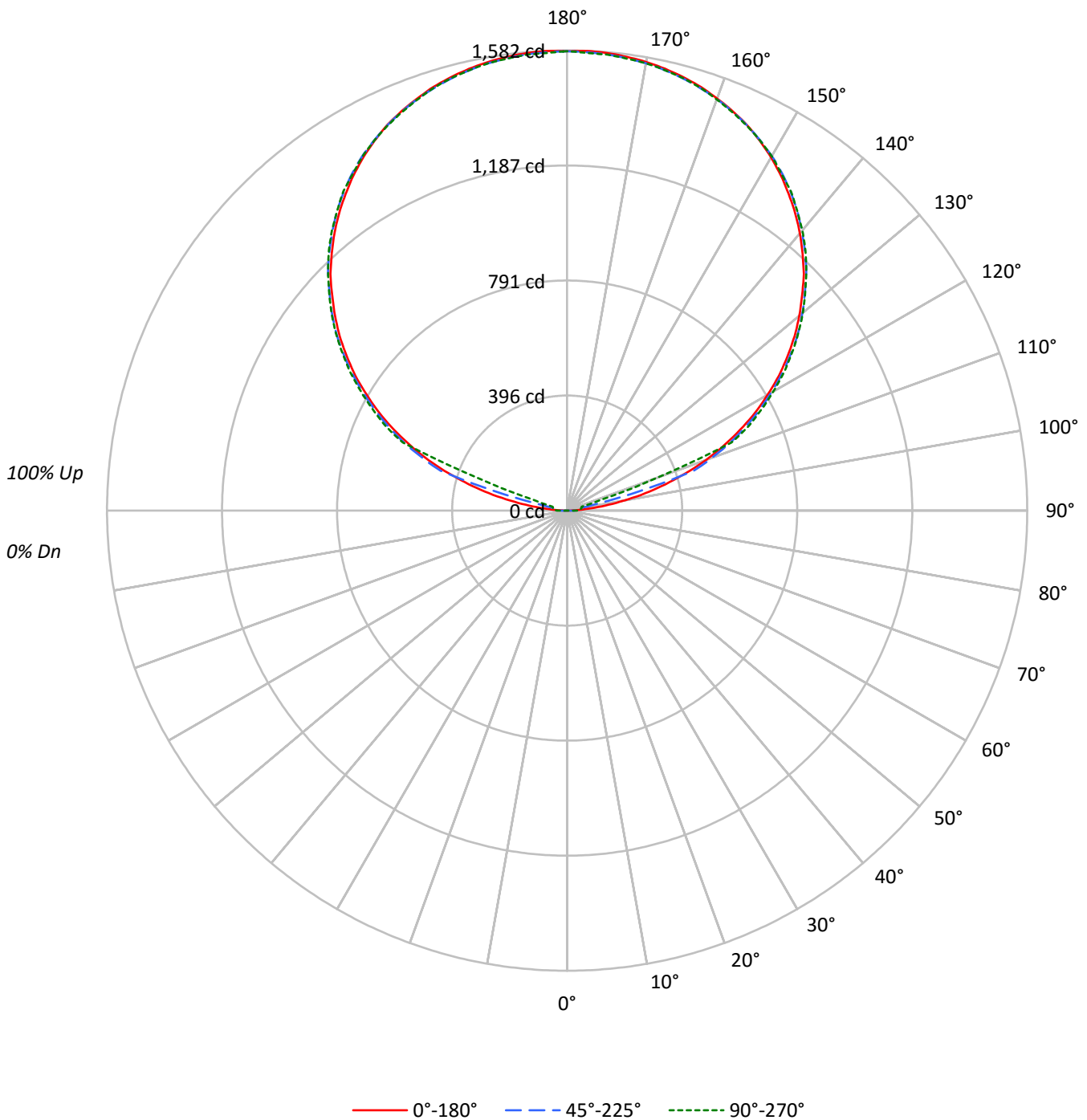
Lumens per Lamp: N/A
Luminaire Lumens: 4817.5 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

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°	3.2	0.1
90°-100°	55.7	1.2
100°-110°	269.2	5.6
110°-120°	659.8	13.7
120°-130°	837.6	17.4
130°-140°	894.8	18.6
140°-150°	836.7	17.4
150°-160°	674.9	14.0
160°-170°	435.5	9.0
170°-180°	150.1	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.2	0.1
90°-120°	984.7	20.4
90°-150°	3553.8	73.8
90°-180°	4814.0	99.9
0°-180°	4817.5	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	28	33	35	4
95°	72	24	36	45	45	85
105°	350	362	257	49	52	371
115°	656	663	674	685	690	648
125°	924	934	939	941	943	826
135°	1151	1158	1163	1166	1163	886
145°	1328	1336	1339	1341	1341	831
155°	1463	1461	1462	1468	1461	674
165°	1543	1539	1538	1548	1539	436
175°	1579	1573	1574	1583	1573	150
180°	1579	1579	1579	1579	1579	



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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°	1.2	12.9	28.2	32.9	35.2
92.5°	27.0	19.9	30.5	38.7	39.9
95°	71.6	23.5	36.4	44.6	44.6
97.5°	130.2	97.4	37.5	46.9	48.1
100°	198.3	221.7	38.7	48.1	49.3
102.5°	275.7	291.0	86.8	48.1	50.5
105°	349.6	362.5	256.9	49.3	51.6
107.5°	428.2	438.8	456.4	275.7	122.0
110°	506.9	516.2	529.1	490.4	322.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	581.9	590.2	603.1	613.6	611.3
115°	655.9	662.9	673.5	685.2	689.9
117.5°	728.6	736.8	742.7	752.1	753.2
120°	795.5	806.0	809.6	818.9	818.9
122.5°	863.5	871.7	876.4	882.3	883.5
125°	924.5	933.9	938.6	941.0	943.3
127.5°	985.5	994.9	1000.8	1004.3	1002.0
130°	1041.9	1051.3	1055.9	1060.6	1058.3
132.5°	1095.8	1105.2	1108.7	1113.4	1109.9
135°	1151.0	1158.0	1162.7	1166.2	1162.7
137.5°	1197.9	1207.3	1209.6	1215.5	1213.2
140°	1244.8	1251.9	1255.4	1260.1	1257.7
142.5°	1288.3	1295.3	1298.8	1302.3	1298.8
145°	1328.1	1336.4	1338.7	1341.0	1341.0
147.5°	1366.9	1372.7	1375.1	1377.4	1371.6
150°	1402.1	1405.6	1407.9	1410.3	1406.8
152.5°	1433.7	1434.9	1436.1	1440.8	1434.9
155°	1463.1	1460.7	1461.9	1467.8	1460.7
157.5°	1486.5	1486.5	1485.4	1492.4	1483.0
160°	1507.7	1506.5	1505.3	1512.3	1504.1
162.5°	1527.6	1524.1	1522.9	1531.1	1524.1
165°	1542.9	1539.3	1538.2	1547.5	1539.3
167.5°	1555.8	1551.1	1551.1	1560.5	1551.1
170°	1566.3	1561.6	1561.6	1571.0	1561.6
172.5°	1573.4	1567.5	1568.7	1578.0	1567.5
175°	1579.2	1573.4	1574.5	1582.7	1573.4
177.5°	1581.6	1575.7	1576.9	1586.3	1574.5
180°	1579.2	1579.2	1579.2	1579.2	1579.2

(END OF REPORT)