

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: P334729

Luminaire Tested: **S123IP-S1195U835-4F0-1E-UDD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334729  
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-S1195U835-4F0-1E-UDD  
Description: DEFINE 3 INDIRECT LED LUMINAIRE, NO LENS  
PENDANT MOUNT, 1195 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

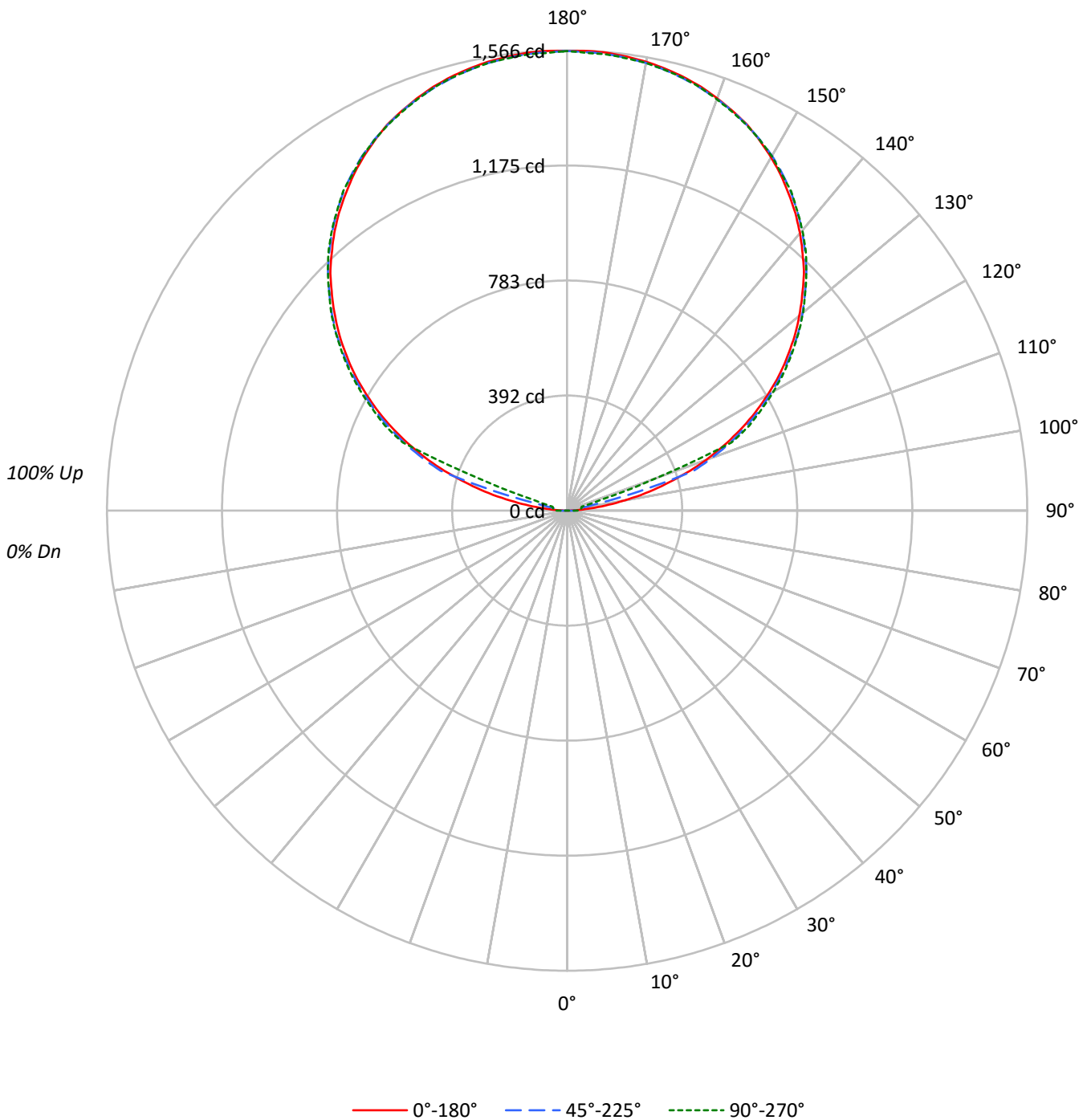
Lumens per Lamp: N/A  
Luminaire Lumens: 4770.5 lumens  
Efficiency: N/A  
Efficacy: 113.9 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')  
CIE Type: Indirect

Input Watts (W): 41.9  
Input Voltage (V): 120  
Input Current (Ain): 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°	3.1	0.1
90°-100°	55.1	1.2
100°-110°	266.6	5.6
110°-120°	653.3	13.7
120°-130°	829.4	17.4
130°-140°	886.1	18.6
140°-150°	828.5	17.4
150°-160°	668.3	14.0
160°-170°	431.3	9.0
170°-180°	148.6	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.1	0.1
90°-120°	975.1	20.4
90°-150°	3519.1	73.8
90°-180°	4767.0	99.9
0°-180°	4770.5	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	32	35	4
95°	71	23	36	44	44	85
105°	346	359	254	49	51	367
115°	650	656	667	678	683	641
125°	916	925	929	932	934	818
135°	1140	1147	1151	1155	1151	877
145°	1315	1323	1326	1328	1328	823
155°	1449	1446	1448	1453	1446	668
165°	1528	1524	1523	1532	1524	432
175°	1564	1558	1559	1567	1558	149
180°	1564	1564	1564	1564	1564	



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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	12.8	27.9	32.5	34.9
92.5°	26.7	19.8	30.2	38.3	39.5
95°	70.9	23.2	36.0	44.1	44.1
97.5°	129.0	96.4	37.2	46.5	47.6
100°	196.3	219.6	38.3	47.6	48.8
102.5°	273.0	288.1	86.0	47.6	50.0
105°	346.2	359.0	254.4	48.8	51.1
107.5°	424.1	434.5	451.9	273.0	120.8
110°	501.9	511.2	524.0	485.6	319.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	576.3	584.4	597.2	607.6	605.3
115°	649.5	656.4	666.9	678.5	683.1
117.5°	721.5	729.6	735.4	744.7	745.9
120°	787.7	798.2	801.6	810.9	810.9
122.5°	855.1	863.2	867.9	873.7	874.8
125°	915.5	924.8	929.4	931.8	934.1
127.5°	975.9	985.2	991.0	994.5	992.2
130°	1031.7	1041.0	1045.6	1050.3	1048.0
132.5°	1085.1	1094.4	1097.9	1102.6	1099.1
135°	1139.7	1146.7	1151.4	1154.8	1151.4
137.5°	1186.2	1195.5	1197.8	1203.6	1201.3
140°	1232.7	1239.7	1243.1	1247.8	1245.5
142.5°	1275.7	1282.6	1286.1	1289.6	1286.1
145°	1315.2	1323.3	1325.6	1327.9	1327.9
147.5°	1353.5	1359.3	1361.6	1364.0	1358.2
150°	1388.4	1391.8	1394.2	1396.5	1393.0
152.5°	1419.7	1420.9	1422.1	1426.7	1420.9
155°	1448.8	1446.5	1447.6	1453.4	1446.5
157.5°	1472.0	1472.0	1470.9	1477.8	1468.5
160°	1492.9	1491.8	1490.6	1497.6	1489.4
162.5°	1512.7	1509.2	1508.0	1516.2	1509.2
165°	1527.8	1524.3	1523.1	1532.4	1524.3
167.5°	1540.6	1535.9	1535.9	1545.2	1535.9
170°	1551.0	1546.4	1546.4	1555.7	1546.4
172.5°	1558.0	1552.2	1553.3	1562.6	1552.2
175°	1563.8	1558.0	1559.1	1567.3	1558.0
177.5°	1566.1	1560.3	1561.5	1570.8	1559.1
180°	1563.8	1563.8	1563.8	1563.8	1563.8

(END OF REPORT)