

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: P334664

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334664
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-S1195U840-4F0-1E-UDD-1
Description: DEFINE 3 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
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: 4141.8 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

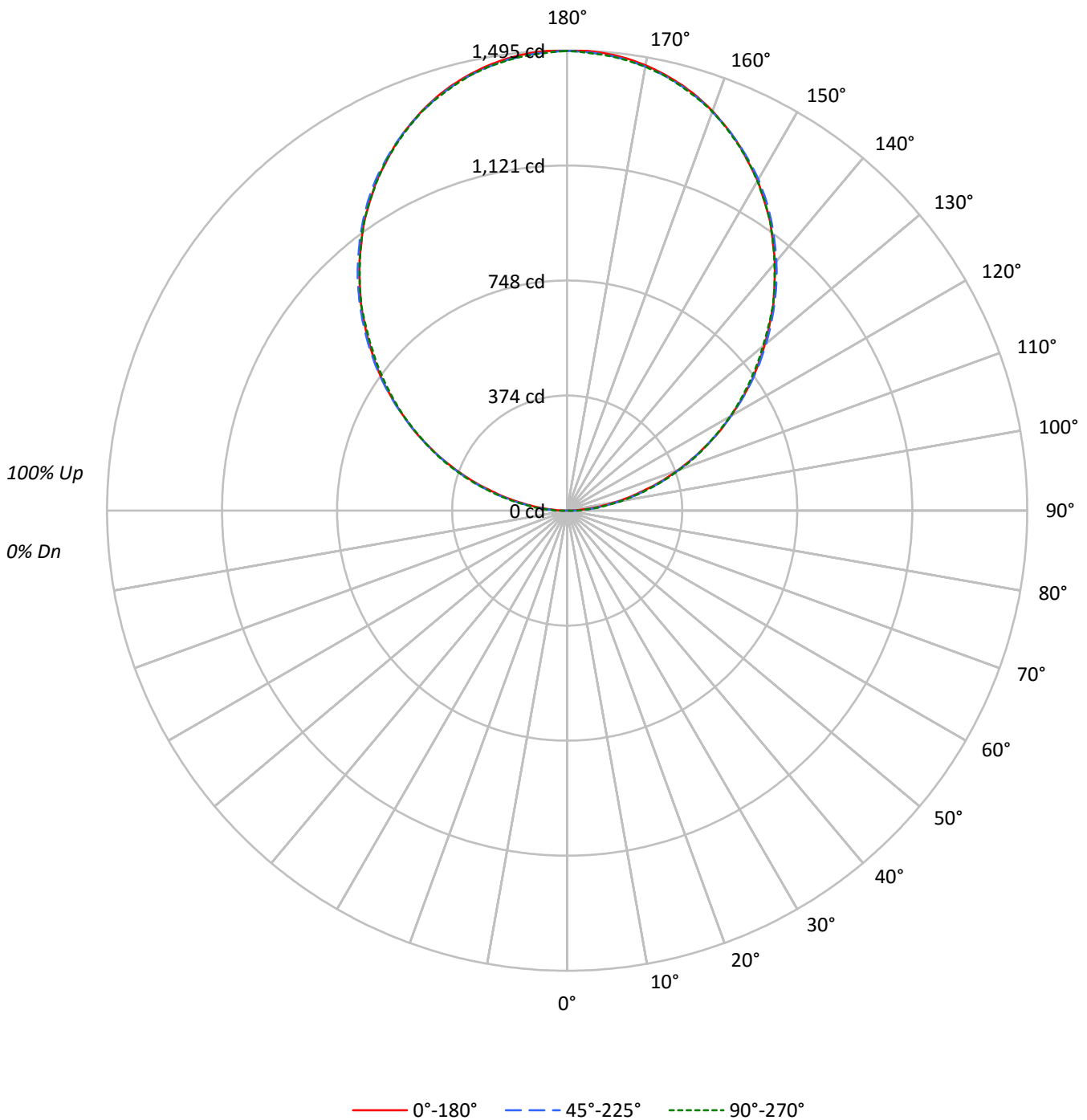
Input Watts (W): 41.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3.2	0.1
90°-100°	96.1	2.3
100°-110°	291.0	7.0
110°-120°	495.4	12.0
120°-130°	651.8	15.7
130°-140°	732.6	17.7
140°-150°	720.2	17.4
150°-160°	606.4	14.6
160°-170°	403.7	9.7
170°-180°	141.4	3.4
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°	882.6	21.3
90°-150°	2987.2	72.1
90°-180°	4139.0	99.9
0°-180°	4141.8	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	5
95°	69	77	87	92	92	76
105°	264	266	277	277	279	283
115°	499	502	500	501	500	494
125°	730	733	731	726	722	651
135°	947	954	953	948	946	730
145°	1149	1151	1155	1153	1149	717
155°	1315	1315	1316	1321	1313	605
165°	1433	1429	1429	1436	1428	404
175°	1490	1486	1486	1492	1484	142
180°	1494	1494	1494	1494	1494	



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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°	35.2	42.2	49.3	52.8	50.5
95°	69.2	77.4	86.8	91.5	91.5
97.5°	113.8	119.7	126.7	132.6	131.4
100°	159.6	166.6	172.5	176.0	178.3
102.5°	212.4	215.9	224.1	227.6	226.5
105°	264.0	266.3	276.9	276.9	279.3
107.5°	325.0	326.2	330.9	334.4	333.2
110°	381.3	383.7	386.0	390.7	388.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	440.0	441.2	441.2	447.0	447.0
115°	498.7	502.2	499.8	501.0	499.8
117.5°	558.5	559.7	557.3	557.3	553.8
120°	613.7	620.7	614.8	613.7	611.3
122.5°	671.2	675.8	673.5	670.0	666.5
125°	729.8	733.3	731.0	726.3	721.6
127.5°	783.8	790.8	788.5	781.4	776.8
130°	837.8	847.2	843.6	838.9	830.7
132.5°	891.7	901.1	898.8	892.9	887.0
135°	946.9	953.9	952.8	948.1	945.7
137.5°	997.3	1003.2	1006.7	1000.9	997.3
140°	1050.1	1056.0	1057.2	1056.0	1047.8
142.5°	1098.2	1104.1	1106.5	1105.3	1099.4
145°	1148.7	1151.0	1154.6	1153.4	1148.7
147.5°	1192.1	1196.8	1200.3	1200.3	1193.3
150°	1237.9	1240.2	1242.6	1242.6	1235.5
152.5°	1275.4	1278.9	1280.1	1282.5	1276.6
155°	1315.3	1315.3	1316.5	1321.2	1313.0
157.5°	1349.3	1348.2	1349.3	1354.0	1347.0
160°	1381.0	1378.7	1378.7	1384.5	1379.9
162.5°	1409.2	1405.7	1406.8	1412.7	1404.5
165°	1432.7	1429.1	1429.1	1436.2	1428.0
167.5°	1452.6	1447.9	1449.1	1456.1	1449.1
170°	1469.0	1464.3	1464.3	1472.5	1464.3
172.5°	1481.9	1477.2	1477.2	1484.3	1476.1
175°	1490.1	1485.5	1485.5	1492.5	1484.3
177.5°	1494.8	1490.1	1490.1	1497.2	1489.0
180°	1493.7	1493.7	1493.7	1493.7	1493.7

(END OF REPORT)