

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:

Report Number: P381946

Luminaire Tested: **845-36-PSJCAC-L15/830-UNV**

Issue Date: 06/30/15

Test Information

Test Method: LM-79-08
Report Number: P381946
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P34238)
Test Lab: INNOVATIONS CENTER-P3
Issue Date: 06/30/15
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:
Catalog Number: 845-36-PSJCAC-L15/830-UNV
Description: SHAPER 845 INDOOR PENDANT.
Light Source: [72] COOPER LIGHTING 3000K LEDS
Ballast/Driver: [6] HATCH ELECTRONIC DRIVER
LC25-1050Z-UNV-Q

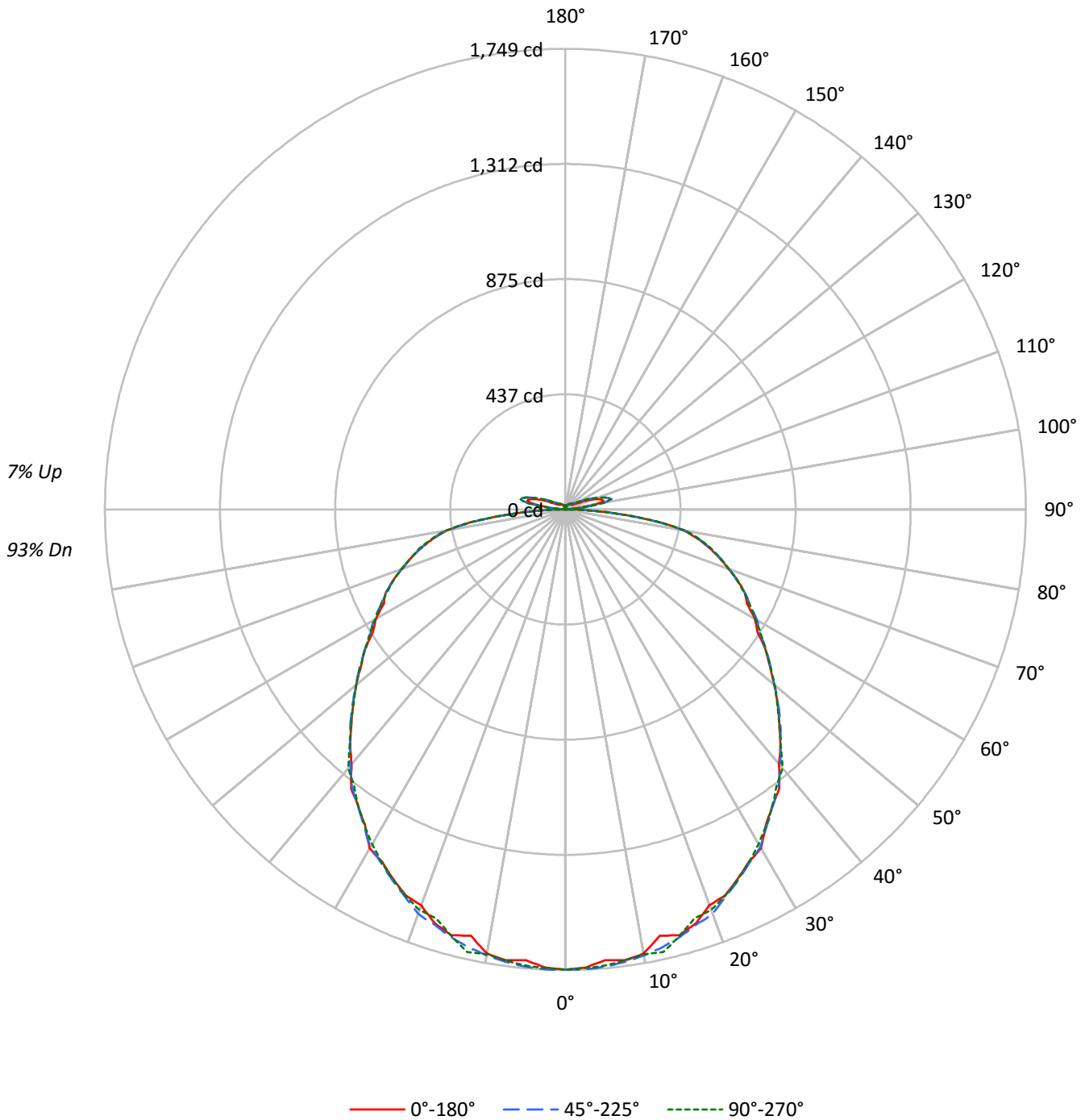
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5903.4 lumens
Efficiency: N/A
Efficacy: 42.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Vertical Cylinder (Dia: 3' x H: 0.38')
CIE Type: Direct

Input Watts (W): 138.3
Input Voltage (V): NR
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	50	30	10	0			
RCR																								
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93	93	93	93			
1	106	100	95	91	102	97	93	89	92	88	85	87	84	81	82	80	77	75	75	75	75			
2	95	86	79	72	92	84	77	71	79	73	68	75	70	66	71	67	63	61	61	61	61			
3	86	75	66	59	83	73	65	58	69	62	57	65	60	55	62	57	53	50	50	50	50			
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	50	45	43	43	43	43			
5	72	59	50	43	70	57	49	42	55	47	41	52	45	40	49	44	39	37	37	37	37			
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	45	39	34	32	32	32	32			
7	62	48	39	33	60	47	38	32	45	37	32	43	36	31	41	35	30	28	28	28	28			
8	58	44	35	29	56	43	34	29	41	33	28	39	32	28	37	31	27	25	25	25	25			
9	54	40	32	26	52	39	31	26	38	30	25	36	29	25	35	29	24	22	22	22	22			
10	50	37	29	24	49	36	28	23	35	28	23	33	27	22	32	26	22	20	20	20	20			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2661	2661	2661
5°	2591	2628	2621
10°	2576	2587	2581
15°	2531	2542	2535
20°	2451	2504	2480
25°	2422	2431	2424
30°	2394	2384	2363
35°	2295	2298	2295
40°	2214	2224	2250
45°	2134	2145	2137
50°	2063	2066	2066
55°	2010	2013	2010
60°	1984	2009	1991
65°	2023	2027	2012
70°	2043	2047	2052
75°	2093	2098	2115
80°	2102	2115	2122
85°	1261	1234	1270



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.2	2.8
10°-20°	472.2	8.0
20°-30°	714.8	12.1
30°-40°	859.5	14.6
40°-50°	890.2	15.1
50°-60°	834.7	14.1
60°-70°	743.8	12.6
70°-80°	599.4	10.2
80°-90°	236.1	4.0
90°-100°	54.7	0.9
100°-110°	161.5	2.7
110°-120°	85.9	1.5
120°-130°	36.8	0.6
130°-140°	22.2	0.4
140°-150°	14.3	0.2
150°-160°	7.2	0.1
160°-170°	3.4	0.1
170°-180°	1.3	0.0
0°-30°	1352.3	22.9
0°-40°	2211.8	37.5
0°-60°	3936.8	66.7
0°-90°	5516.1	93.4
90°-120°	302.1	5.1
90°-150°	375.5	6.4
90°-180°	387.0	6.6
0°-180°	5903.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1748	1748	1748	1748	1748	
5°	1719	1733	1743	1748	1739	165
15°	1674	1657	1681	1680	1677	469
25°	1548	1544	1554	1554	1550	714
35°	1372	1375	1374	1375	1372	862
45°	1149	1141	1154	1154	1150	888
55°	929	935	931	932	929	830
65°	753	746	755	752	749	740
75°	567	568	568	573	573	596
85°	204	202	199	204	205	224
90°	1	3	1	1	3	13
95°	26	29	30	32	32	47
105°	144	153	169	170	169	143
115°	62	79	90	90	88	69
125°	30	35	43	43	42	28
135°	26	24	30	30	32	21
145°	23	22	19	24	24	15
155°	19	17	16	13	12	9
165°	13	13	12	10	10	4
175°	14	14	14	14	14	1
180°	16	16	16	16	16	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1747.5	1747.5	1747.5	1747.5	1747.5
2.5°	1741.7	1737.4	1748.9	1746.0	1743.1
5°	1718.6	1733.0	1743.1	1747.5	1738.8
7.5°	1727.3	1720.1	1733.0	1731.6	1728.7
10°	1712.8	1717.2	1720.1	1718.6	1715.7
12.5°	1658.0	1689.8	1702.7	1704.2	1721.5
15°	1673.9	1656.6	1681.1	1679.7	1676.8
17.5°	1647.9	1633.5	1653.7	1653.7	1629.1
20°	1600.3	1616.2	1634.9	1623.4	1619.0
22.5°	1585.9	1580.1	1591.6	1591.6	1587.3
25°	1548.3	1544.0	1554.1	1554.1	1549.8
27.5°	1509.4	1503.6	1513.7	1515.1	1510.8
30°	1486.3	1460.3	1480.5	1470.4	1467.5
32.5°	1418.5	1417.0	1424.2	1425.7	1421.4
35°	1372.3	1375.2	1373.7	1375.2	1372.3
37.5°	1336.2	1317.5	1330.4	1320.3	1318.9
40°	1262.6	1252.5	1268.4	1269.8	1282.8
42.5°	1209.2	1204.9	1210.7	1213.6	1210.7
45°	1148.6	1141.4	1154.4	1154.4	1150.1
47.5°	1093.8	1090.9	1096.7	1111.1	1090.9
50°	1036.1	1041.8	1037.5	1043.3	1037.5
52.5°	978.4	974.0	984.1	985.6	981.2
55°	929.3	935.1	930.7	932.2	929.3
57.5°	865.8	880.2	877.3	884.6	880.2
60°	831.2	834.1	841.3	836.9	834.1
62.5°	777.8	789.3	790.8	802.3	790.8
65°	753.2	746.0	754.7	751.8	748.9
67.5°	710.0	708.5	707.1	710.0	707.1
70°	659.5	665.2	660.9	671.0	662.3
72.5°	614.7	614.7	617.6	620.5	616.2
75°	567.1	568.5	568.5	572.9	572.9
77.5°	515.2	522.4	520.9	522.4	520.9
80°	456.0	453.1	458.9	463.2	460.3
82.5°	350.6	347.8	342.0	349.2	347.8
85°	203.5	202.0	199.1	203.5	204.9
87.5°	85.1	90.9	85.1	90.9	89.5
90°	1.4	2.9	1.4	1.4	2.9
92.5°	4.3	5.8	5.8	5.8	5.8
95°	26.0	28.9	30.3	31.7	31.7
97.5°	80.8	88.0	96.7	98.1	96.7
100°	125.5	135.6	150.1	151.5	150.1
102.5°	148.6	160.2	180.4	178.9	174.6
105°	144.3	153.0	168.8	170.3	168.8
107.5°	128.4	137.1	150.1	150.1	148.6
110°	109.7	116.9	128.4	131.3	127.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	89.5	98.1	108.2	108.2	106.8
115°	62.0	79.4	89.5	89.5	88.0
117.5°	50.5	63.5	73.6	75.0	73.6
120°	40.4	50.5	60.6	60.6	59.2
122.5°	34.6	41.8	50.5	50.5	49.1
125°	30.3	34.6	43.3	43.3	41.8
127.5°	27.4	28.9	37.5	37.5	37.5
130°	27.4	27.4	33.2	34.6	34.6
132.5°	26.0	24.5	31.7	33.2	33.2
135°	26.0	24.5	30.3	30.3	31.7
137.5°	27.4	23.1	28.9	28.9	30.3
140°	26.0	23.1	27.4	27.4	27.4
142.5°	24.5	23.1	23.1	26.0	26.0
145°	23.1	21.6	18.8	24.5	24.5
147.5°	23.1	21.6	18.8	23.1	23.1
150°	21.6	20.2	17.3	17.3	21.6
152.5°	20.2	18.8	13.0	13.0	14.4
155°	18.8	17.3	15.9	13.0	11.5
157.5°	17.3	17.3	15.9	10.1	13.0
160°	14.4	14.4	13.0	10.1	10.1
162.5°	14.4	13.0	11.5	10.1	10.1
165°	13.0	13.0	11.5	10.1	10.1
167.5°	14.4	13.0	11.5	11.5	10.1
170°	14.4	14.4	13.0	11.5	11.5
172.5°	14.4	13.0	13.0	13.0	13.0
175°	14.4	14.4	14.4	14.4	14.4
177.5°	14.4	13.0	14.4	14.4	14.4
180°	15.9	15.9	15.9	15.9	15.9

(END OF REPORT)