

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: P406546

Luminaire Tested: **845-36-PSJCAC-L15/840-UNV**

Issue Date: 06/30/15

Test Information

Test Method: LM-79-08
Report Number: P406546
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-L15/840-UNV
Description: SHAPER 845 INDOOR PENDANT.
Light Source: [72] COOPER LIGHTING 4000K LEDS
Ballast/Driver: [6] HATCH ELECTRONIC DRIVER
LC25-1050Z-UNV-Q

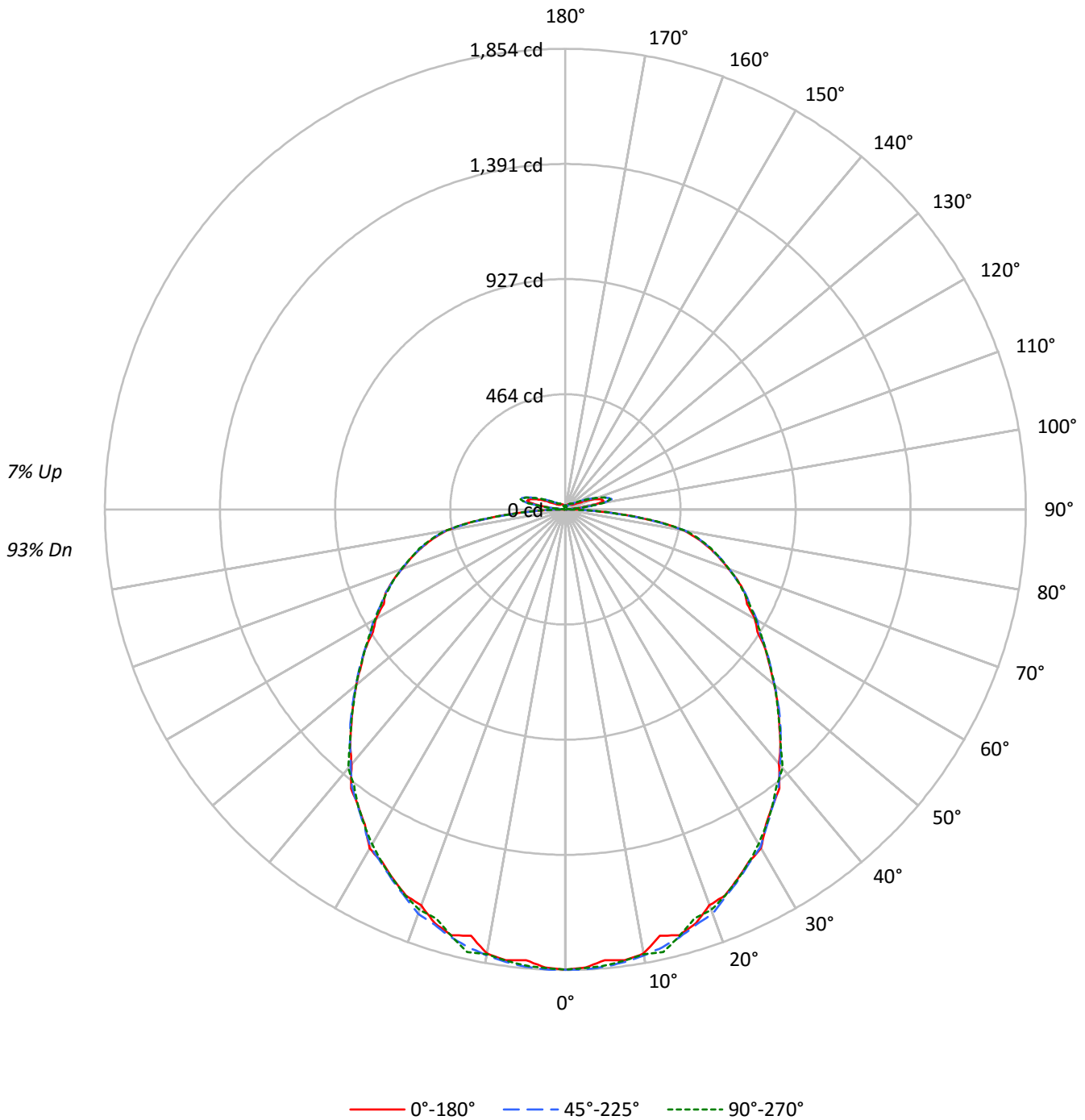
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6257.6 lumens
Efficiency: N/A
Efficacy: 45.2 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

TEST NUMBER: P406546
CATALOG NUMBER: 845-36-PSJCAC-L15/840-UNV

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2821	2821	2821
5°	2746	2786	2779
10°	2731	2742	2735
15°	2683	2694	2687
20°	2598	2655	2629
25°	2567	2577	2570
30°	2537	2527	2505
35°	2433	2435	2433
40°	2347	2358	2385
45°	2262	2273	2265
50°	2187	2190	2190
55°	2131	2134	2131
60°	2104	2129	2111
65°	2145	2149	2132
70°	2166	2170	2175
75°	2219	2224	2242
80°	2228	2242	2249
85°	1337	1308	1346



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.1	2.8
10°-20°	500.6	8.0
20°-30°	757.7	12.1
30°-40°	911.1	14.6
40°-50°	943.6	15.1
50°-60°	884.8	14.1
60°-70°	788.4	12.6
70°-80°	635.4	10.2
80°-90°	250.3	4.0
90°-100°	58.0	0.9
100°-110°	171.2	2.7
110°-120°	91.1	1.5
120°-130°	39.0	0.6
130°-140°	23.6	0.4
140°-150°	15.2	0.2
150°-160°	7.6	0.1
160°-170°	3.6	0.1
170°-180°	1.4	0.0
0°-30°	1433.4	22.9
0°-40°	2344.5	37.5
0°-60°	4173.0	66.7
0°-90°	5847.0	93.4
90°-120°	320.3	5.1
90°-150°	398.0	6.4
90°-180°	411.0	6.6
0°-180°	6257.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1852	1852	1852	1852	1852	
5°	1822	1837	1848	1852	1843	174
15°	1774	1756	1782	1780	1777	497
25°	1641	1637	1647	1647	1643	757
35°	1455	1458	1456	1458	1455	913
45°	1218	1210	1224	1224	1219	942
55°	985	991	986	988	985	879
65°	798	791	800	797	794	785
75°	601	603	603	607	607	631
85°	216	214	211	216	217	238
90°	2	3	2	2	3	13
95°	28	31	32	34	34	49
105°	153	162	179	180	179	151
115°	66	84	95	95	93	73
125°	32	37	46	46	44	30
135°	28	26	32	32	34	22
145°	24	23	20	26	26	16
155°	20	18	17	14	12	9
165°	14	14	12	11	11	4
175°	15	15	15	15	15	1
180°	17	17	17	17	17	



TEST NUMBER: P406546

CATALOG NUMBER: 845-36-PSJCAC-L15/840-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1852.4	1852.4	1852.4	1852.4	1852.4
2.5°	1846.2	1841.6	1853.8	1850.8	1847.7
5°	1821.7	1837.0	1847.7	1852.4	1843.1
7.5°	1830.9	1823.3	1837.0	1835.5	1832.4
10°	1815.6	1820.2	1823.3	1821.7	1818.6
12.5°	1757.5	1791.2	1804.9	1806.5	1824.8
15°	1774.3	1756.0	1782.0	1780.5	1777.4
17.5°	1746.8	1731.5	1752.9	1752.9	1726.8
20°	1696.3	1713.2	1733.0	1720.8	1716.1
22.5°	1681.1	1674.9	1687.1	1687.1	1682.5
25°	1641.2	1636.6	1647.3	1647.3	1642.8
27.5°	1600.0	1593.8	1604.5	1606.0	1601.4
30°	1575.5	1547.9	1569.3	1558.6	1555.6
32.5°	1503.6	1502.0	1509.7	1511.2	1506.7
35°	1454.6	1457.7	1456.1	1457.7	1454.6
37.5°	1416.4	1396.6	1410.2	1399.5	1398.0
40°	1338.4	1327.6	1344.5	1346.0	1359.8
42.5°	1281.8	1277.2	1283.3	1286.4	1283.3
45°	1217.5	1209.9	1223.7	1223.7	1219.1
47.5°	1159.4	1156.4	1162.5	1177.8	1156.4
50°	1098.3	1104.3	1099.8	1105.9	1099.8
52.5°	1037.1	1032.4	1043.1	1044.7	1040.1
55°	985.1	991.2	986.5	988.1	985.1
57.5°	917.7	933.0	929.9	937.7	933.0
60°	881.1	884.1	891.8	887.1	884.1
62.5°	824.5	836.7	838.2	850.4	838.2
65°	798.4	790.8	800.0	796.9	793.8
67.5°	752.6	751.0	749.5	752.6	749.5
70°	699.1	705.1	700.6	711.3	702.0
72.5°	651.6	651.6	654.7	657.7	653.2
75°	601.1	602.6	602.6	607.3	607.3
77.5°	546.1	553.7	552.2	553.7	552.2
80°	483.4	480.3	486.4	491.0	487.9
82.5°	371.6	368.7	362.5	370.2	368.7
85°	215.7	214.1	211.0	215.7	217.2
87.5°	90.2	96.4	90.2	96.4	94.9
90°	1.5	3.1	1.5	1.5	3.1
92.5°	4.6	6.1	6.1	6.1	6.1
95°	27.6	30.6	32.1	33.6	33.6
97.5°	85.6	93.3	102.5	104.0	102.5
100°	133.0	143.7	159.1	160.6	159.1
102.5°	157.5	169.8	191.2	189.6	185.1
105°	153.0	162.2	178.9	180.5	178.9
107.5°	136.1	145.3	159.1	159.1	157.5
110°	116.3	123.9	136.1	139.2	134.6



TEST NUMBER: P406546

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	94.9	104.0	114.7	114.7	113.2
115°	65.7	84.2	94.9	94.9	93.3
117.5°	53.5	67.3	78.0	79.5	78.0
120°	42.8	53.5	64.2	64.2	62.8
122.5°	36.7	44.3	53.5	53.5	52.0
125°	32.1	36.7	45.9	45.9	44.3
127.5°	29.0	30.6	39.8	39.8	39.8
130°	29.0	29.0	35.2	36.7	36.7
132.5°	27.6	26.0	33.6	35.2	35.2
135°	27.6	26.0	32.1	32.1	33.6
137.5°	29.0	24.5	30.6	30.6	32.1
140°	27.6	24.5	29.0	29.0	29.0
142.5°	26.0	24.5	24.5	27.6	27.6
145°	24.5	22.9	19.9	26.0	26.0
147.5°	24.5	22.9	19.9	24.5	24.5
150°	22.9	21.4	18.3	18.3	22.9
152.5°	21.4	19.9	13.8	13.8	15.3
155°	19.9	18.3	16.9	13.8	12.2
157.5°	18.3	18.3	16.9	10.7	13.8
160°	15.3	15.3	13.8	10.7	10.7
162.5°	15.3	13.8	12.2	10.7	10.7
165°	13.8	13.8	12.2	10.7	10.7
167.5°	15.3	13.8	12.2	12.2	10.7
170°	15.3	15.3	13.8	12.2	12.2
172.5°	15.3	13.8	13.8	13.8	13.8
175°	15.3	15.3	15.3	15.3	15.3
177.5°	15.3	13.8	15.3	15.3	15.3
180°	16.9	16.9	16.9	16.9	16.9

(END OF REPORT)