

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: P228830

Luminaire Tested: **845-36-PSJCAC-L15/835-UNV**

Issue Date: 06/30/15

Test Information

Test Method: LM-79-08
Report Number: P228830
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-PSJAC-L15/835-UNV
Description: SHAPER 845 INDOOR PENDANT.
Light Source: [72] COOPER LIGHTING 3500K LEDS
Ballast/Driver: [6] HATCH ELECTRONIC DRIVER
LC25-1050Z-UNV-Q

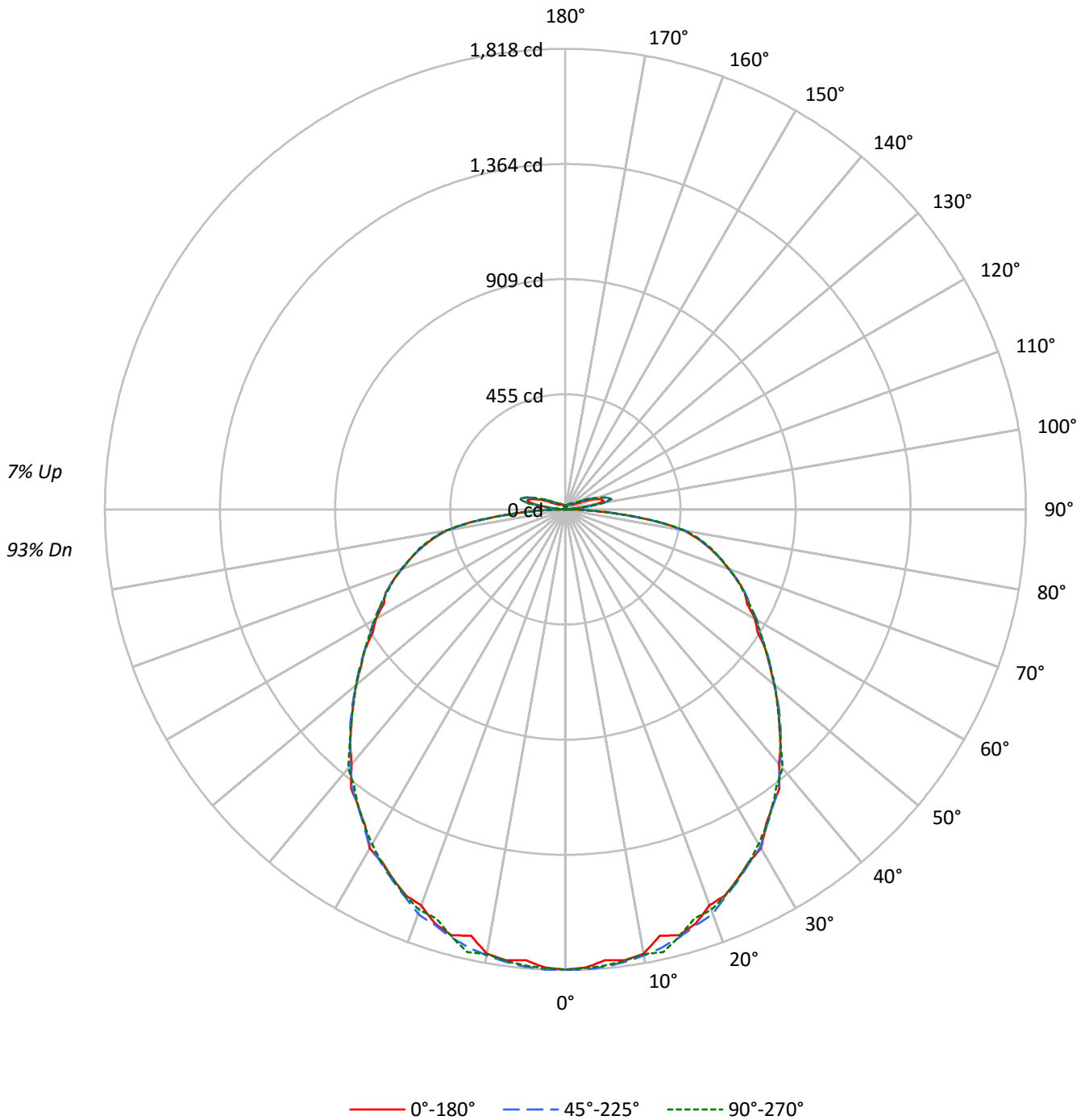
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6136.6 lumens
Efficiency: N/A
Efficacy: 44.4 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	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°	2766	2766	2766
5°	2693	2732	2725
10°	2678	2689	2682
15°	2631	2642	2635
20°	2548	2603	2578
25°	2517	2527	2520
30°	2488	2478	2457
35°	2386	2388	2386
40°	2302	2312	2339
45°	2218	2229	2221
50°	2145	2148	2148
55°	2090	2093	2090
60°	2063	2088	2070
65°	2103	2107	2091
70°	2124	2128	2133
75°	2176	2181	2198
80°	2185	2199	2205
85°	1311	1283	1320



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.7	2.8
10°-20°	490.9	8.0
20°-30°	743.1	12.1
30°-40°	893.5	14.6
40°-50°	925.4	15.1
50°-60°	867.7	14.1
60°-70°	773.1	12.6
70°-80°	623.1	10.2
80°-90°	245.4	4.0
90°-100°	56.9	0.9
100°-110°	167.9	2.7
110°-120°	89.3	1.5
120°-130°	38.2	0.6
130°-140°	23.1	0.4
140°-150°	14.9	0.2
150°-160°	7.4	0.1
160°-170°	3.5	0.1
170°-180°	1.4	0.0
0°-30°	1405.7	22.9
0°-40°	2299.2	37.5
0°-60°	4092.3	66.7
0°-90°	5734.0	93.4
90°-120°	314.1	5.1
90°-150°	390.3	6.4
90°-180°	403.0	6.6
0°-180°	6136.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1816	1816	1816	1816	1816	
5°	1786	1802	1812	1816	1808	171
15°	1740	1722	1748	1746	1743	488
25°	1610	1605	1616	1616	1611	742
35°	1426	1430	1428	1430	1426	896
45°	1194	1186	1200	1200	1196	923
55°	966	972	968	969	966	862
65°	783	776	784	782	778	769
75°	590	591	591	596	596	619
85°	212	210	207	212	213	233
90°	2	3	2	2	3	13
95°	27	30	32	33	33	48
105°	150	159	176	177	176	148
115°	64	82	93	93	92	72
125°	32	36	45	45	44	30
135°	27	26	32	32	33	21
145°	24	22	20	26	26	15
155°	20	18	16	14	12	9
165°	14	14	12	10	10	4
175°	15	15	15	15	15	1
180°	16	16	16	16	16	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1816.5	1816.5	1816.5	1816.5	1816.5
2.5°	1810.5	1806.0	1818.0	1815.0	1812.0
5°	1786.5	1801.5	1812.0	1816.5	1807.5
7.5°	1795.5	1788.0	1801.5	1800.0	1797.0
10°	1780.5	1785.0	1788.0	1786.5	1783.5
12.5°	1723.5	1756.5	1770.0	1771.5	1789.5
15°	1740.0	1722.0	1747.5	1746.0	1743.0
17.5°	1713.0	1698.0	1719.0	1719.0	1693.5
20°	1663.5	1680.0	1699.5	1687.5	1683.0
22.5°	1648.5	1642.5	1654.5	1654.5	1650.0
25°	1609.5	1605.0	1615.5	1615.5	1611.0
27.5°	1569.0	1563.0	1573.5	1575.0	1570.5
30°	1545.0	1518.0	1539.0	1528.5	1525.5
32.5°	1474.5	1473.0	1480.5	1482.0	1477.5
35°	1426.5	1429.5	1428.0	1429.5	1426.5
37.5°	1389.0	1369.5	1383.0	1372.5	1371.0
40°	1312.5	1302.0	1318.5	1320.0	1333.5
42.5°	1257.0	1252.5	1258.5	1261.5	1258.5
45°	1194.0	1186.5	1200.0	1200.0	1195.5
47.5°	1137.0	1134.0	1140.0	1155.0	1134.0
50°	1077.0	1083.0	1078.5	1084.5	1078.5
52.5°	1017.0	1012.5	1023.0	1024.5	1020.0
55°	966.0	972.0	967.5	969.0	966.0
57.5°	900.0	915.0	912.0	919.5	915.0
60°	864.0	867.0	874.5	870.0	867.0
62.5°	808.5	820.5	822.0	834.0	822.0
65°	783.0	775.5	784.5	781.5	778.5
67.5°	738.0	736.5	735.0	738.0	735.0
70°	685.5	691.5	687.0	697.5	688.5
72.5°	639.0	639.0	642.0	645.0	640.5
75°	589.5	591.0	591.0	595.5	595.5
77.5°	535.5	543.0	541.5	543.0	541.5
80°	474.0	471.0	477.0	481.5	478.5
82.5°	364.5	361.5	355.5	363.0	361.5
85°	211.5	210.0	207.0	211.5	213.0
87.5°	88.5	94.5	88.5	94.5	93.0
90°	1.5	3.0	1.5	1.5	3.0
92.5°	4.5	6.0	6.0	6.0	6.0
95°	27.0	30.0	31.5	33.0	33.0
97.5°	84.0	91.5	100.5	102.0	100.5
100°	130.5	141.0	156.0	157.5	156.0
102.5°	154.5	166.5	187.5	186.0	181.5
105°	150.0	159.0	175.5	177.0	175.5
107.5°	133.5	142.5	156.0	156.0	154.5
110°	114.0	121.5	133.5	136.5	132.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	93.0	102.0	112.5	112.5	111.0
115°	64.5	82.5	93.0	93.0	91.5
117.5°	52.5	66.0	76.5	78.0	76.5
120°	42.0	52.5	63.0	63.0	61.5
122.5°	36.0	43.5	52.5	52.5	51.0
125°	31.5	36.0	45.0	45.0	43.5
127.5°	28.5	30.0	39.0	39.0	39.0
130°	28.5	28.5	34.5	36.0	36.0
132.5°	27.0	25.5	33.0	34.5	34.5
135°	27.0	25.5	31.5	31.5	33.0
137.5°	28.5	24.0	30.0	30.0	31.5
140°	27.0	24.0	28.5	28.5	28.5
142.5°	25.5	24.0	24.0	27.0	27.0
145°	24.0	22.5	19.5	25.5	25.5
147.5°	24.0	22.5	19.5	24.0	24.0
150°	22.5	21.0	18.0	18.0	22.5
152.5°	21.0	19.5	13.5	13.5	15.0
155°	19.5	18.0	16.5	13.5	12.0
157.5°	18.0	18.0	16.5	10.5	13.5
160°	15.0	15.0	13.5	10.5	10.5
162.5°	15.0	13.5	12.0	10.5	10.5
165°	13.5	13.5	12.0	10.5	10.5
167.5°	15.0	13.5	12.0	12.0	10.5
170°	15.0	15.0	13.5	12.0	12.0
172.5°	15.0	13.5	13.5	13.5	13.5
175°	15.0	15.0	15.0	15.0	15.0
177.5°	15.0	13.5	15.0	15.0	15.0
180°	16.5	16.5	16.5	16.5	16.5

(END OF REPORT)