

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: SHAPER

Report Number: P34238

Luminaire Tested: **845-27-PSJCAC-L10/835-UNV**

Test Date: 06/30/15

Test Information

Test Method: LM-79-08
Report Number: P34238
Test Lab: INNOVATION CENTER-P3
Test Date: 06/30/15
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 845-27-PSJCAC-L10/835-UNV
Description: SHAPER 845 INDOOR PENDANT.
Light Source: [48] COOPER LIGHTING 3500K LEDS
12439451
Ballast/Driver: [4] HATCH ELECTRONIC DRIVER
LC25-1050Z-UNV-Q

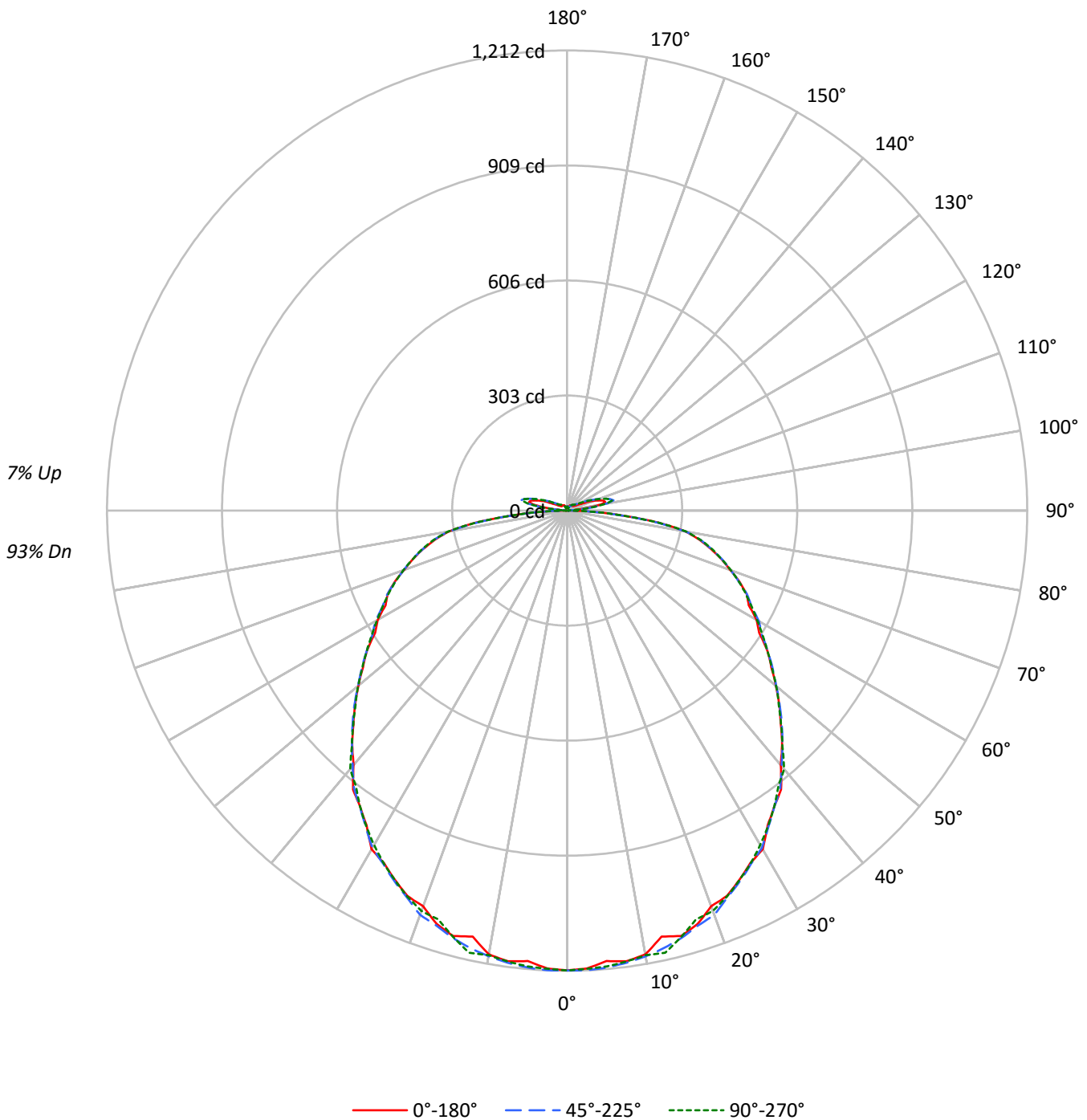
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4091.1 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: 2.08' x H: 0.38')
CIE Type: Direct

Input Watts (W): 92.2
Input Voltage (V): 120.1
Input Current (Ain): 0.771
Voltage Rise (V): NR
Power Factor: 0.9984
Total Harmonic Distortion (THDi): 6.89
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: HR
Ambient Temperature (°C): 25.0
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°	3824	3824	3824
5°	3701	3754	3744
10°	3658	3674	3664
15°	3573	3588	3579
20°	3440	3514	3480
25°	3377	3390	3381
30°	3317	3304	3275
35°	3159	3162	3159
40°	3025	3039	3073
45°	2892	2906	2895
50°	2770	2774	2774
55°	2671	2675	2671
60°	2604	2636	2613
65°	2615	2620	2600
70°	2589	2595	2600
75°	2584	2591	2611
80°	2499	2514	2522
85°	1411	1381	1421



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.5	2.8
10°-20°	327.3	8.0
20°-30°	495.4	12.1
30°-40°	595.7	14.6
40°-50°	616.9	15.1
50°-60°	578.5	14.1
60°-70°	515.4	12.6
70°-80°	415.4	10.2
80°-90°	163.6	4.0
90°-100°	37.9	0.9
100°-110°	111.9	2.7
110°-120°	59.6	1.5
120°-130°	25.5	0.6
130°-140°	15.4	0.4
140°-150°	9.9	0.2
150°-160°	5.0	0.1
160°-170°	2.4	0.1
170°-180°	0.9	0.0
0°-30°	937.1	22.9
0°-40°	1532.8	37.5
0°-60°	2728.2	66.7
0°-90°	3822.6	93.4
90°-120°	209.4	5.1
90°-150°	260.2	6.4
90°-180°	268.0	6.6
0°-180°	4091.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1211	1211	1211	1211	1211	
5°	1191	1201	1208	1211	1205	114
15°	1160	1148	1165	1164	1162	325
25°	1073	1070	1077	1077	1074	495
35°	951	953	952	953	951	597
45°	796	791	800	800	797	616
55°	644	648	645	646	644	575
65°	522	517	523	521	519	513
75°	393	394	394	397	397	413
85°	141	140	138	141	142	155
90°	1	2	1	1	2	9
95°	18	20	21	22	22	32
105°	100	106	117	118	117	99
115°	43	55	62	62	61	48
125°	21	24	30	30	29	20
135°	18	17	21	21	22	14
145°	16	15	13	17	17	10
155°	13	12	11	9	8	6
165°	9	9	8	7	7	3
175°	10	10	10	10	10	1
180°	11	11	11	11	11	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1211	1211	1211	1211	1211
2.5°	1207	1204	1212	1210	1208
5°	1191	1201	1208	1211	1205
7.5°	1197	1192	1201	1200	1198
10°	1187	1190	1192	1191	1189
12.5°	1149	1171	1180	1181	1193
15°	1160	1148	1165	1164	1162
17.5°	1142	1132	1146	1146	1129
20°	1109	1120	1133	1125	1122
22.5°	1099	1095	1103	1103	1100
25°	1073	1070	1077	1077	1074
27.5°	1046	1042	1049	1050	1047
30°	1030	1012	1026	1019	1017
32.5°	983	982	987	988	985
35°	951	953	952	953	951
37.5°	926	913	922	915	914
40°	875	868	879	880	889
42.5°	838	835	839	841	839
45°	796	791	800	800	797
47.5°	758	756	760	770	756
50°	718	722	719	723	719
52.5°	678	675	682	683	680
55°	644	648	645	646	644
57.5°	600	610	608	613	610
60°	576	578	583	580	578
62.5°	539	547	548	556	548
65°	522	517	523	521	519
67.5°	492	491	490	492	490
70°	457	461	458	465	459
72.5°	426	426	428	430	427
75°	393	394	394	397	397
77.5°	357	362	361	362	361
80°	316	314	318	321	319
82.5°	243	241	237	242	241
85°	141	140	138	141	142
87.5°	59	63	59	63	62
90°	1	2	1	1	2
92.5°	3	4	4	4	4
95°	18	20	21	22	22
97.5°	56	61	67	68	67
100°	87	94	104	105	104
102.5°	103	111	125	124	121
105°	100	106	117	118	117
107.5°	89	95	104	104	103
110°	76	81	89	91	88



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	62	68	75	75	74
115°	43	55	62	62	61
117.5°	35	44	51	52	51
120°	28	35	42	42	41
122.5°	24	29	35	35	34
125°	21	24	30	30	29
127.5°	19	20	26	26	26
130°	19	19	23	24	24
132.5°	18	17	22	23	23
135°	18	17	21	21	22
137.5°	19	16	20	20	21
140°	18	16	19	19	19
142.5°	17	16	16	18	18
145°	16	15	13	17	17
147.5°	16	15	13	16	16
150°	15	14	12	12	15
152.5°	14	13	9	9	10
155°	13	12	11	9	8
157.5°	12	12	11	7	9
160°	10	10	9	7	7
162.5°	10	9	8	7	7
165°	9	9	8	7	7
167.5°	10	9	8	8	7
170°	10	10	9	8	8
172.5°	10	9	9	9	9
175°	10	10	10	10	10
177.5°	10	9	10	10	10
180°	11	11	11	11	11

(END OF REPORT)