

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: P34350

Luminaire Tested: **160-25-W-L3/835-UNV-NA**

Test Date: 08/23/15

**Test Information**

Test Method: LM-79-08  
Report Number: P34350  
Test Lab: INNOVATION CENTER-P3  
Test Date: 08/23/15  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: SHAPER  
Catalog Number: 160-25-W-L3/835-UNV-NA  
Description: SHAPER 160 SERIES 25" FABRIQUE ROUND CYLINDER WALL SCONCE LUMINAIRE.  
Light Source: 12 CKTS 3500K LEDS  
12499797  
Ballast/Driver: (1) PHILIPS ELECTRONIC DRIVER  
LEDINTA2000C24DOM

**Summary**

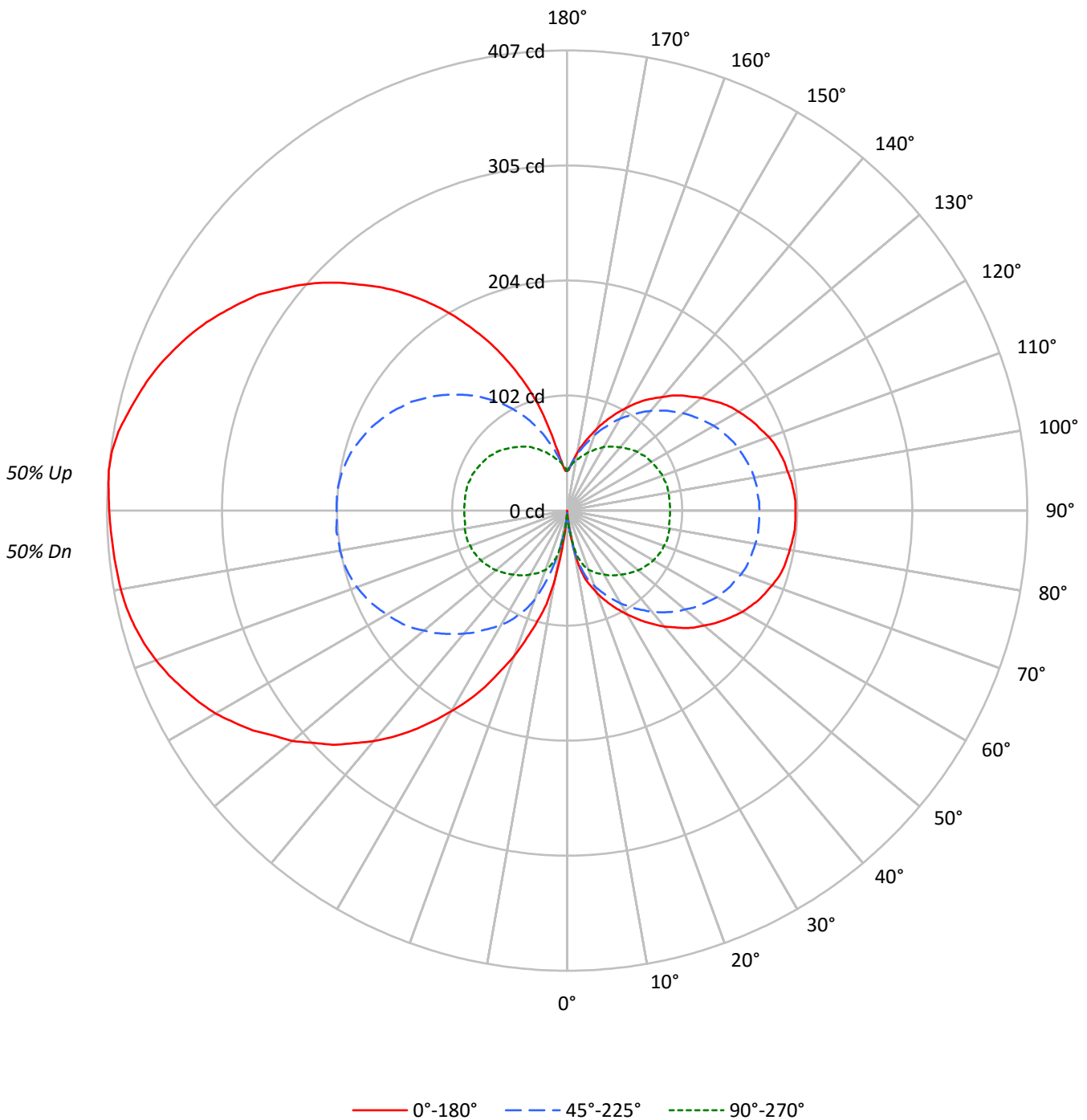
Lumens per Lamp: N/A  
Luminaire Lumens: 1935.0 lumens  
Efficiency: N/A  
Efficacy: 88.0 lumens/watt  
Spacing Criteria (0/90/45): 13.25 / 8.8 / 9.9  
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 0.33' x H: 2.08')  
CIE Type: General Diffuse  
  
Input Watts (W): 22  
Input Voltage (V): 120.0  
Input Current (Ain): 0.185  
Voltage Rise (V): NR  
Power Factor: 0.9957  
Total Harmonic Distortion (THDi): 9.12  
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	107	107	107	107	99	99	99	99	84	84	84		69	69	69		57	57	57	50
1	92	86	80	74	84	78	73	68	65	61	57		53	50	47		41	39	37	31
2	82	72	63	56	74	66	58	52	54	48	43		43	39	35		33	30	27	22
3	73	61	52	44	67	56	48	41	46	39	34		36	31	27		28	24	20	16
4	66	53	43	36	60	48	40	33	40	33	27		31	26	22		24	20	16	12
5	60	47	37	30	55	42	34	27	35	28	22		27	22	18		21	17	13	10
6	55	41	32	25	50	38	29	23	31	24	19		24	19	15		18	14	11	8
7	51	37	28	21	46	34	25	20	28	21	16		22	17	13		17	12	9	6
8	47	33	24	18	43	30	22	17	25	18	14		20	15	11		15	11	8	5
9	43	30	22	16	39	27	20	15	23	16	12		18	13	9		14	10	7	4
10	40	27	19	14	37	25	18	13	21	15	10		16	12	8		13	9	6	4

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	97	97	97
5°	126	420	314
10°	842	983	1427
15°	1181	1283	1894
20°	1228	1351	2156
25°	1256	1327	2348
30°	1286	1296	2488
35°	1320	1298	2607
40°	1357	1292	2694
45°	1389	1295	2768
50°	1409	1308	2827
55°	1438	1314	2884
60°	1466	1329	2941
65°	1488	1339	2976
70°	1504	1344	3016
75°	1523	1360	3047
80°	1531	1371	3069
85°	1550	1377	3092



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1.7	0.1
10°-20°	16.8	0.9
20°-30°	42.8	2.2
30°-40°	75.7	3.9
40°-50°	111.0	5.7
50°-60°	146.1	7.6
60°-70°	176.6	9.1
70°-80°	198.1	10.2
80°-90°	207.4	10.7
90°-100°	206.6	10.7
100°-110°	194.6	10.1
110°-120°	171.7	8.9
120°-130°	141.1	7.3
130°-140°	107.0	5.5
140°-150°	73.0	3.8
150°-160°	42.2	2.2
160°-170°	18.3	0.9
170°-180°	4.1	0.2
0°-30°	61.4	3.2
0°-40°	137.1	7.1
0°-60°	394.2	20.4
0°-90°	976.3	50.5
90°-120°	572.9	29.6
90°-150°	894.0	46.2
90°-180°	959.0	49.6
0°-180°	1935.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2	2	2	2	2	
5°	4	7	11	9	10	1
15°	63	58	47	56	101	18
25°	92	83	61	102	172	43
35°	120	106	70	129	237	76
45°	147	127	78	154	293	114
55°	169	145	85	176	339	152
65°	187	159	90	192	374	185
75°	198	167	92	202	396	209
85°	202	170	91	205	403	164
90°	202	170	91	204	405	111
95°	201	169	91	204	407	164
105°	195	165	91	198	393	206
115°	183	156	88	185	368	181
125°	166	142	84	168	333	149
135°	144	125	77	145	285	111
145°	119	104	69	120	229	75
155°	91	82	60	93	165	42
165°	64	60	50	63	95	19
175°	41	41	40	39	39	4
180°	35	35	35	35	35	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2	2	2	2	2	2	2	2	2
2.5°	0	1	2	3	5	5	4	2	1
5°	4	5	7	10	11	11	9	8	10
7.5°	17	18	21	22	21	20	18	23	33
10°	36	37	36	32	31	32	29	37	61
12.5°	52	51	47	44	41	45	42	48	85
15°	63	62	58	52	47	55	56	55	101
17.5°	70	70	66	59	52	62	70	64	118
20°	78	76	71	64	56	68	84	81	137
22.5°	85	83	77	68	58	72	94	99	153
25°	92	90	83	73	61	76	102	118	172
27.5°	99	97	89	77	63	79	110	137	189
30°	106	104	95	81	65	82	117	156	205
32.5°	113	110	100	85	68	85	123	171	221
35°	120	117	106	89	70	88	129	185	237
37.5°	127	123	111	93	72	91	136	196	252
40°	134	129	117	97	74	94	142	205	266
42.5°	140	136	122	101	76	97	148	213	279
45°	147	142	127	105	78	99	154	221	293
47.5°	153	148	132	108	80	102	160	229	304
50°	158	153	136	112	82	105	165	236	317
52.5°	164	159	141	115	84	107	171	245	327
55°	169	163	145	118	85	109	176	253	339
57.5°	174	168	149	120	87	111	180	261	349
60°	179	173	153	123	88	112	184	268	359
62.5°	183	176	156	125	89	114	188	275	367
65°	187	180	159	127	90	115	192	281	374
67.5°	190	183	161	129	91	116	195	288	381
70°	193	186	164	131	91	117	198	293	387
72.5°	196	188	166	132	92	117	200	298	392
75°	198	190	167	133	92	118	202	302	396
77.5°	199	192	168	133	92	118	203	305	399
80°	200	193	169	134	92	118	204	307	401
82.5°	201	193	170	134	91	117	204	308	402
85°	202	194	170	134	91	117	205	309	403
87.5°	202	195	170	134	91	116	204	309	404
90°	202	194	170	134	91	116	204	309	405
92.5°	202	194	170	134	91	116	204	308	406
95°	201	193	169	133	91	116	204	306	407
97.5°	200	192	169	133	91	116	203	304	406
100°	198	191	168	133	91	116	202	301	403
102.5°	197	190	167	132	91	115	200	297	398
105°	195	188	165	131	91	114	198	292	393
107.5°	193	185	163	130	90	113	195	287	388
110°	190	183	161	129	90	112	192	282	382



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	186	180	159	127	89	111	189	275	375
115°	183	176	156	125	88	109	185	269	368
117.5°	179	173	153	123	87	108	181	262	360
120°	175	169	150	121	86	106	177	254	351
122.5°	171	165	146	118	85	104	172	247	342
125°	166	160	142	116	84	102	168	238	333
127.5°	160	155	138	113	82	99	162	231	321
130°	155	150	134	109	81	97	157	224	310
132.5°	149	145	129	106	79	95	151	216	298
135°	144	139	125	103	77	92	145	209	285
137.5°	138	133	120	100	75	89	139	201	271
140°	131	127	115	96	73	86	133	193	258
142.5°	125	121	110	92	71	83	127	185	244
145°	119	115	104	88	69	80	120	177	229
147.5°	112	109	99	85	67	77	114	167	214
150°	105	102	94	80	65	74	107	157	198
152.5°	98	96	88	76	62	71	100	145	181
155°	91	89	82	72	60	67	93	133	165
157.5°	84	82	77	68	57	64	86	120	148
160°	77	76	71	63	55	60	78	107	130
162.5°	70	69	65	60	52	57	71	93	113
165°	64	63	60	56	50	53	63	80	95
167.5°	58	57	55	52	47	49	57	66	75
170°	52	52	51	48	45	45	50	54	58
172.5°	46	47	46	45	43	42	44	46	47
175°	41	41	41	41	40	39	39	39	39
177.5°	36	37	37	38	38	37	36	35	35
180°	35	35	35	35	35	35	35	35	35

(END OF REPORT)