

Scaled data based on original data using
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge or
Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: SHAPER

Report Number: 253P301

Luminaire Tested: **507-INC/1/75-120V**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 253P301
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 507-INC/1/75-120V
Description: SHAPER CLASSIC WALL LUMINAIRE GLASS SCONCE
Light Source: ONE - 75WA19 - 1170 LUMENS - 75 WATTS
Ballast/Driver: -

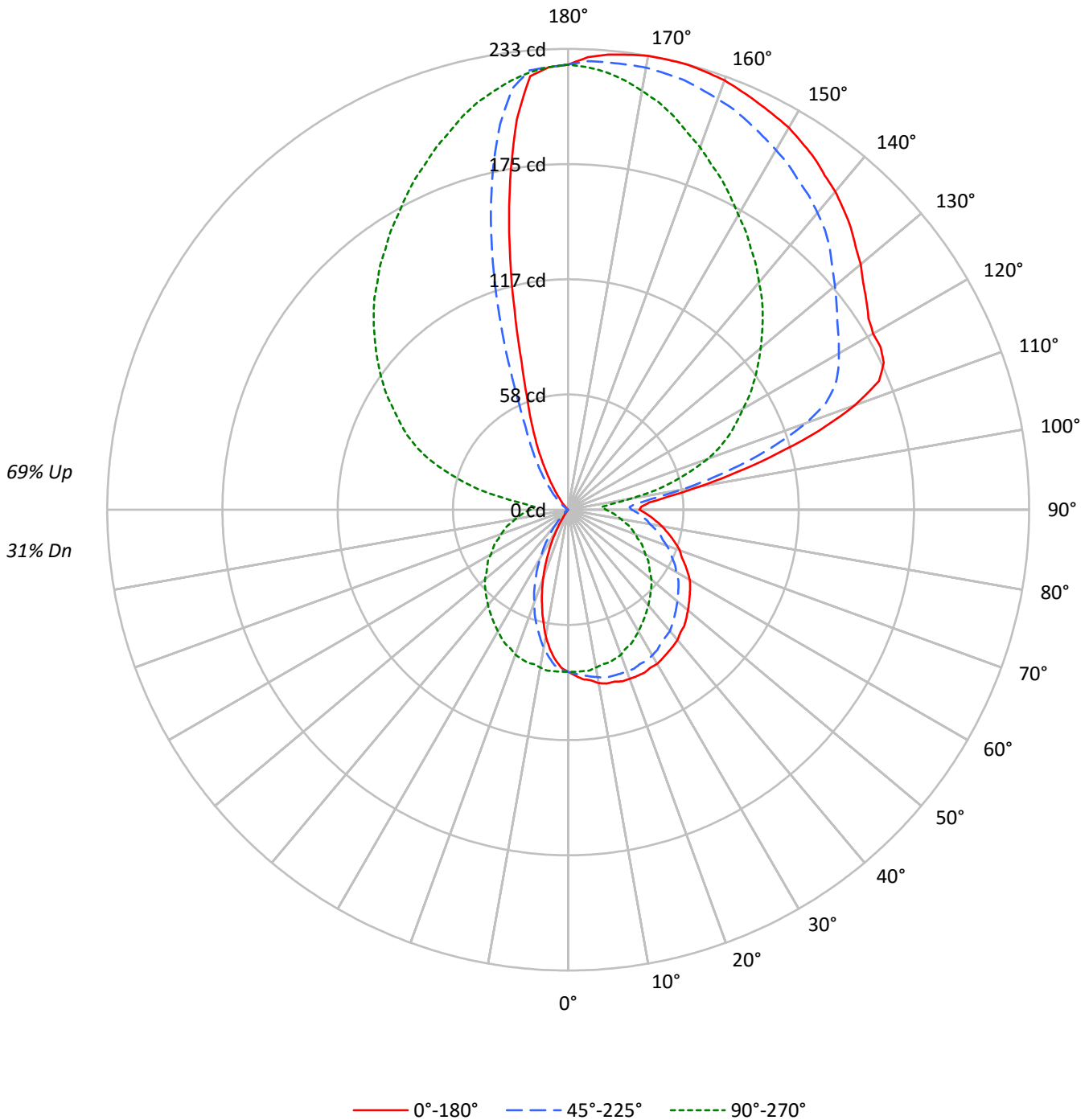
Summary

Lumens per Lamp: 1170 (1 lamp)
Luminaire Lumens: 775.5 lumens
Efficiency: 66.3%
Efficacy: 10.2 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 1.28 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 1.12' x L: 0.69' x H: 0.42')
CIE Type: Semi-Indirect

Input Watts (W): 76
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	68	68	68	68	61	61	61	61	48	48	48	37	37	37	26	26	26	21
1	61	58	55	53	55	52	50	48	41	39	38	31	30	29	22	21	20	16
2	55	50	46	43	50	45	42	39	36	33	31	27	25	23	19	17	16	13
3	50	44	39	35	45	40	35	32	31	28	26	23	21	20	16	15	14	11
4	46	39	33	29	41	35	30	27	28	24	22	21	18	17	14	13	12	9
5	42	34	29	25	38	31	26	23	25	21	18	19	16	14	13	11	10	8
6	39	31	25	22	35	28	23	20	22	19	16	17	14	12	12	10	9	7
7	36	28	22	19	32	25	20	17	20	16	14	15	13	11	11	9	8	6
8	33	25	20	16	30	23	18	15	18	15	12	14	11	10	10	8	7	5
9	31	23	18	15	28	21	16	13	17	13	11	13	10	9	9	7	6	5
10	29	21	16	13	26	19	15	12	15	12	10	12	9	8	8	7	6	4

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	1141	1141	1141
5°	1141	1110	1008
10°	1136	1074	830
15°	1116	1049	632
20°	1104	1018	449
25°	1089	982	275
30°	1071	940	131
35°	1050	904	36
40°	1036	873	0
45°	1017	847	0
50°	993	826	0
55°	975	793	0
60°	964	763	0
65°	931	752	0
70°	916	726	0
75°	890	722	0
80°	867	698	0
85°	846	702	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	7.7	1.0	0.7
10°-20°	21.0	2.7	1.8
20°-30°	29.6	3.8	2.5
30°-40°	33.4	4.3	2.9
40°-50°	34.7	4.5	3.0
50°-60°	34.6	4.5	3.0
60°-70°	32.3	4.2	2.8
70°-80°	27.8	3.6	2.4
80°-90°	22.0	2.8	1.9
90°-100°	22.0	2.8	1.9
100°-110°	51.7	6.7	4.4
110°-120°	77.0	9.9	6.6
120°-130°	80.7	10.4	6.9
130°-140°	80.8	10.4	6.9
140°-150°	77.5	10.0	6.6
150°-160°	69.0	8.9	5.9
160°-170°	52.8	6.8	4.5
170°-180°	21.0	2.7	1.8
0°-30°	58.3	7.5	5.0
0°-40°	91.6	11.8	7.8
0°-60°	161.0	20.8	13.8
0°-90°	243.1	31.3	20.8
90°-120°	150.7	19.4	12.9
90°-150°	389.7	50.2	33.3
90°-180°	532.0	68.6	45.5
0°-180°	775.5	100.0	66.3

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	82	82	82	82	82	
5°	86	84	82	79	76	8
15°	90	87	80	61	51	26
25°	91	86	75	39	23	42
35°	88	82	67	18	3	55
45°	83	76	59	4	0	64
55°	75	68	50	1	0	67
65°	65	58	41	1	0	65
75°	54	48	32	1	0	57
85°	42	37	23	0	0	36
90°	36	32	19	0	0	20
95°	41	34	17	0	0	39
105°	109	93	55	1	0	116
115°	176	149	90	1	0	171
125°	184	166	115	2	0	165
135°	202	187	139	9	1	156
145°	217	203	161	25	11	136
155°	227	216	184	58	39	105
165°	233	225	206	151	105	66
175°	231	227	222	223	220	22
180°	225	225	225	225	225	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	82	82	82	82	82	82	82	82	82
2.5°	84	84	83	83	82	81	81	80	80
5°	86	85	84	84	82	80	79	77	76
7.5°	87	87	85	84	82	79	75	72	71
10°	89	88	86	84	81	77	71	66	65
12.5°	90	89	87	84	80	74	66	60	58
15°	90	90	87	84	80	72	61	53	51
17.5°	91	90	87	84	79	69	56	47	44
20°	91	90	87	83	78	65	50	40	37
22.5°	91	90	87	83	76	62	45	33	30
25°	91	90	86	82	75	58	39	27	23
27.5°	90	89	86	81	73	54	34	21	17
30°	90	88	85	80	71	51	28	15	11
32.5°	89	88	84	78	69	47	23	10	7
35°	88	87	82	77	67	43	18	6	3
37.5°	87	85	81	75	65	39	14	2	0
40°	86	84	80	73	63	35	10	0	0
42.5°	84	83	78	71	61	32	7	0	0
45°	83	81	76	70	59	28	4	0	0
47.5°	81	79	74	67	57	25	2	0	0
50°	79	77	72	65	55	23	2	0	0
52.5°	77	75	70	63	52	20	2	0	0
55°	75	73	68	61	50	18	1	0	0
57.5°	73	71	66	58	48	17	1	0	0
60°	71	69	63	56	45	16	1	0	0
62.5°	68	66	61	53	43	15	1	0	0
65°	65	63	58	51	41	14	1	0	0
67.5°	62	61	56	48	38	13	1	0	0
70°	60	58	53	46	36	12	1	0	0
72.5°	57	55	50	43	34	11	1	0	0
75°	54	52	48	41	32	10	1	0	0
77.5°	51	50	45	38	29	10	1	0	0
80°	48	47	42	36	27	9	1	0	0
82.5°	45	44	40	34	25	8	0	0	0
85°	42	41	37	31	23	7	0	0	0
87.5°	39	38	35	29	21	7	0	0	0
90°	36	36	32	27	19	6	0	0	0
92.5°	37	36	31	25	18	6	0	0	0
95°	41	39	34	26	17	6	0	0	0
97.5°	51	49	43	34	22	6	0	0	0
100°	67	65	58	47	32	6	0	0	0
102.5°	87	84	75	62	45	7	0	0	0
105°	109	105	93	76	55	7	1	0	0
107.5°	133	126	111	91	65	8	1	0	0
110°	154	145	128	105	75	9	1	0	0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	170	160	141	116	83	10	1	0	0
115°	176	167	149	124	90	11	1	0	0
117.5°	178	171	154	130	96	13	1	0	0
120°	178	172	158	135	102	15	1	0	0
122.5°	180	174	162	141	109	17	1	0	0
125°	184	178	166	146	115	19	2	0	0
127.5°	188	183	171	152	121	22	3	0	0
130°	193	187	176	158	127	24	5	0	0
132.5°	197	192	181	163	133	28	7	1	0
135°	202	197	187	169	139	31	9	2	1
137.5°	206	201	192	174	145	37	12	4	3
140°	210	205	196	179	150	45	15	7	5
142.5°	213	209	200	184	156	56	20	10	7
145°	217	212	203	188	161	70	25	14	11
147.5°	220	215	207	192	167	85	31	19	16
150°	223	218	210	196	172	101	38	26	22
152.5°	225	221	213	200	178	118	46	34	30
155°	227	223	216	203	184	135	58	43	39
157.5°	229	225	219	207	189	151	76	53	49
160°	231	227	221	210	195	168	99	65	61
162.5°	232	228	223	213	200	183	125	88	78
165°	233	230	225	217	206	197	151	117	105
167.5°	233	230	226	219	211	208	176	148	137
170°	233	230	227	222	215	215	198	177	169
172.5°	232	230	227	224	219	219	215	204	199
175°	231	229	227	225	222	222	223	222	220
177.5°	229	227	227	225	224	223	224	224	224
180°	225	225	225	225	225	225	225	225	225

(END OF REPORT)