

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: 253P380

Luminaire Tested: **329-30-INC/3/75-120V**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 253P380
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 329-30-INC/3/75-120V
Description: SHAPER SILK CURVED 30" TRIANGULAR GLASS PLATE INDIRECT PENDANT WITH
THREE LAMP INCANDESCENT
Light Source: THREE FROSTED INCANDESCNT LAMPS
75A19 75 WATTS
Ballast/Driver: -

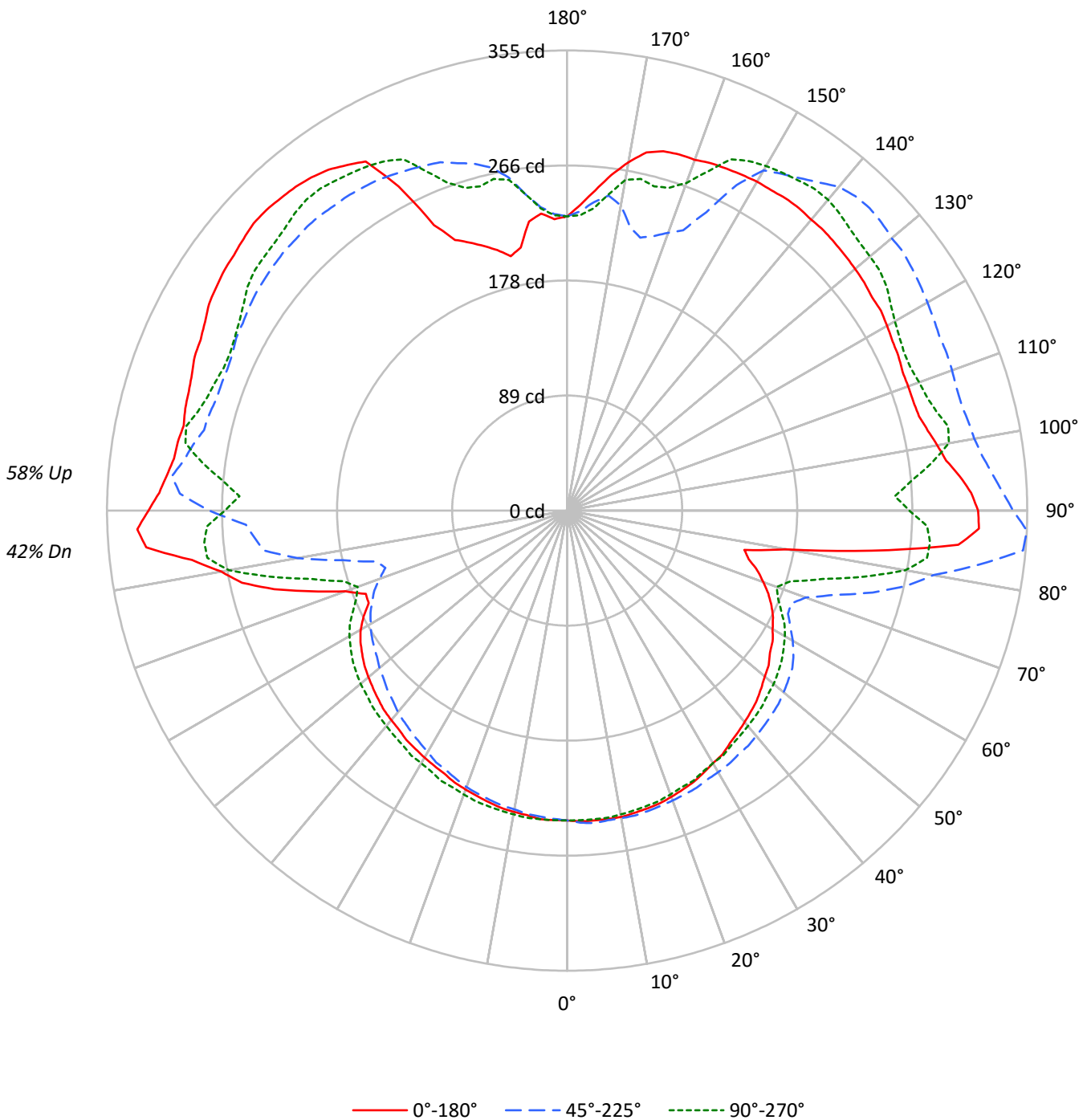
Summary

Lumens per Lamp: 1170 (3 lamps)
Luminaire Lumens: 3256.1 lumens
Efficiency: 92.8%
Efficacy: 14.3 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.42 / 1.6
Luminous Opening: Circular (Dia: 2.25' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 227
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	98	98	98	98	89	89	89	89	73	73	73	59	59	59	46	46	46	39
1	85	80	75	70	77	72	68	64	58	55	52	46	43	41	34	32	31	25
2	76	68	61	55	69	61	55	50	50	45	41	39	35	32	28	26	24	19
3	69	59	51	44	62	53	46	41	43	38	33	33	29	26	24	22	19	15
4	63	52	43	37	57	47	39	34	38	32	28	29	25	22	21	18	16	12
5	57	46	37	31	52	41	34	29	33	28	23	26	22	18	19	16	13	10
6	53	41	32	27	48	37	30	24	30	24	20	23	19	16	17	14	12	9
7	49	36	29	23	44	33	26	21	27	21	17	21	17	14	16	12	10	7
8	45	33	25	20	41	30	23	18	24	19	15	19	15	12	14	11	9	7
9	42	30	23	18	38	27	21	16	22	17	13	18	14	11	13	10	8	6
10	39	27	20	16	35	25	19	14	21	15	12	16	12	10	12	9	7	5

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	647	647	647
5°	652	649	649
10°	660	654	649
15°	667	661	653
20°	677	671	660
25°	690	687	669
30°	703	703	688
35°	724	730	714
40°	753	767	746
45°	793	815	789
50°	838	876	842
55°	901	953	911
60°	991	1050	996
65°	1115	1166	1083
70°	1274	1361	1441
75°	1517	2134	2448
80°	2681	4131	4225
85°	9412	8728	10126



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	22.8	0.7	0.6
10°-20°	66.7	2.0	1.9
20°-30°	105.6	3.2	3.0
30°-40°	137.8	4.2	3.9
40°-50°	161.9	5.0	4.6
50°-60°	176.3	5.4	5.0
60°-70°	176.9	5.4	5.0
70°-80°	215.0	6.6	6.1
80°-90°	315.5	9.7	9.0
90°-100°	334.7	10.3	9.5
100°-110°	316.1	9.7	9.0
110°-120°	297.2	9.1	8.5
120°-130°	274.5	8.4	7.8
130°-140°	239.8	7.4	6.8
140°-150°	191.7	5.9	5.5
150°-160°	129.2	4.0	3.7
160°-170°	71.4	2.2	2.0
170°-180°	23.1	0.7	0.7
0°-30°	195.1	6.0	5.6
0°-40°	332.8	10.2	9.5
0°-60°	671.0	20.6	19.1
0°-90°	1378.4	42.3	39.3
90°-120°	948.0	29.1	27.0
90°-150°	1653.9	50.8	47.1
90°-180°	1878.0	57.7	53.5
0°-180°	3256.1	100.0	92.8

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	239	239	239	239	239	
5°	240	242	239	237	239	23
15°	238	240	236	231	233	67
25°	231	236	230	221	224	107
35°	219	230	221	209	216	138
45°	207	223	213	196	206	160
55°	191	212	202	182	193	172
65°	174	188	182	166	169	172
75°	145	244	204	152	234	160
85°	303	353	281	242	326	214
90°	317	344	264	276	323	173
95°	304	329	267	306	310	245
105°	281	315	295	286	305	299
115°	282	317	287	285	312	280
125°	287	325	301	293	323	258
135°	292	330	308	296	328	226
145°	294	313	311	296	321	184
155°	291	254	299	290	243	135
165°	287	218	259	277	208	81
175°	248	239	234	235	230	24
180°	227	227	227	227	227	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	239	239	239	239	239	239	239	239	239
2.5°	240	239	241	241	239	238	238	239	239
5°	240	240	242	241	239	237	237	239	239
7.5°	240	240	241	241	239	236	236	237	237
10°	240	240	241	240	238	235	234	236	236
12.5°	239	239	241	240	237	234	233	235	235
15°	238	238	240	239	236	232	231	233	233
17.5°	237	237	239	238	235	230	229	231	231
20°	235	236	238	237	233	228	227	229	229
22.5°	233	234	237	236	231	226	224	226	227
25°	231	232	236	235	230	223	221	224	224
27.5°	228	230	234	234	227	221	219	221	222
30°	225	228	233	233	225	218	215	219	220
32.5°	223	226	232	231	224	214	212	216	218
35°	219	223	230	230	221	211	209	214	216
37.5°	216	221	229	229	219	208	206	211	213
40°	213	218	227	227	217	205	203	208	211
42.5°	210	215	225	225	215	202	199	205	209
45°	207	213	223	223	213	199	196	202	206
47.5°	203	210	221	221	210	195	192	199	203
50°	199	207	218	219	208	192	189	196	200
52.5°	196	203	215	216	205	189	185	193	197
55°	191	200	212	212	202	186	182	190	193
57.5°	188	196	207	208	198	182	179	186	189
60°	183	192	201	202	194	179	175	182	184
62.5°	179	187	194	195	189	175	171	176	177
65°	174	180	188	189	182	170	166	170	169
67.5°	168	173	187	187	176	166	161	162	168
70°	161	168	196	197	172	159	154	167	182
72.5°	154	175	216	218	181	152	147	188	207
75°	145	194	244	247	204	147	152	217	234
77.5°	140	222	268	274	235	148	177	246	257
80°	172	246	287	301	265	168	211	263	271
82.5°	237	256	320	342	280	211	236	268	292
85°	303	259	353	364	281	274	242	288	326
87.5°	318	275	355	357	278	315	248	318	332
90°	317	296	344	347	264	326	276	318	323
92.5°	312	304	336	338	253	316	299	311	315
95°	304	304	329	332	267	306	306	305	310
97.5°	295	302	323	326	284	297	298	302	306
100°	290	300	319	322	299	289	293	301	305
102.5°	285	298	317	320	301	283	287	299	303
105°	281	298	315	319	295	280	286	298	305
107.5°	280	300	315	319	291	278	284	298	306
110°	280	301	316	320	289	277	284	299	308



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	280	304	317	320	287	276	284	300	311
115°	282	305	317	321	287	278	285	301	312
117.5°	283	307	319	323	289	279	288	303	315
120°	285	309	321	325	292	280	289	303	319
122.5°	287	310	323	326	296	281	291	303	321
125°	287	311	325	328	301	283	293	305	323
127.5°	289	312	327	329	304	284	294	306	324
130°	290	312	327	331	305	285	295	307	326
132.5°	291	313	329	331	306	287	296	305	328
135°	292	313	330	332	308	288	296	303	328
137.5°	293	312	329	332	311	289	297	300	327
140°	293	312	326	331	313	289	297	297	326
142.5°	294	310	319	330	313	290	296	295	324
145°	294	309	313	327	311	290	296	289	321
147.5°	293	306	308	322	309	289	295	286	316
150°	293	305	303	308	307	289	294	284	311
152.5°	292	302	283	268	304	288	292	286	282
155°	291	299	254	239	299	287	290	278	243
157.5°	290	296	234	232	283	287	288	259	226
160°	288	293	228	227	269	285	286	234	220
162.5°	288	288	222	222	261	282	281	219	214
165°	287	284	218	217	259	278	277	215	208
167.5°	283	277	224	217	262	273	271	222	201
170°	273	267	239	236	259	264	261	230	206
172.5°	261	256	245	243	246	248	246	236	225
175°	248	246	239	236	234	236	235	232	230
177.5°	236	236	231	230	228	229	229	227	225
180°	227	227	227	227	227	227	227	227	227

(END OF REPORT)