

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: 253P237

Luminaire Tested: **1215-XX-36-MH/3/150-T5C/1/40**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: 253P237  
Test Lab: METALUX LABORATORIES  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: SHAPER  
Catalog Number: 1215-XX-36-MH/3/150-T5C/1/40  
Description: SHAPER 36 INCH 1215 SERIES DIRECT/INDIRECT INDOOR PENDANT FIXTURE  
WITH SHALLOW BOWL  
Light Source: THREE 150 WATT T5 CERAMIC METAL HALIDE AND ONE 40 WATTS T5 CIRCLINE  
(3)CDM150MH -14000 LUMENS AND (1)TL5C40W/830 - 3300 LUMENS  
Ballast/Driver: -

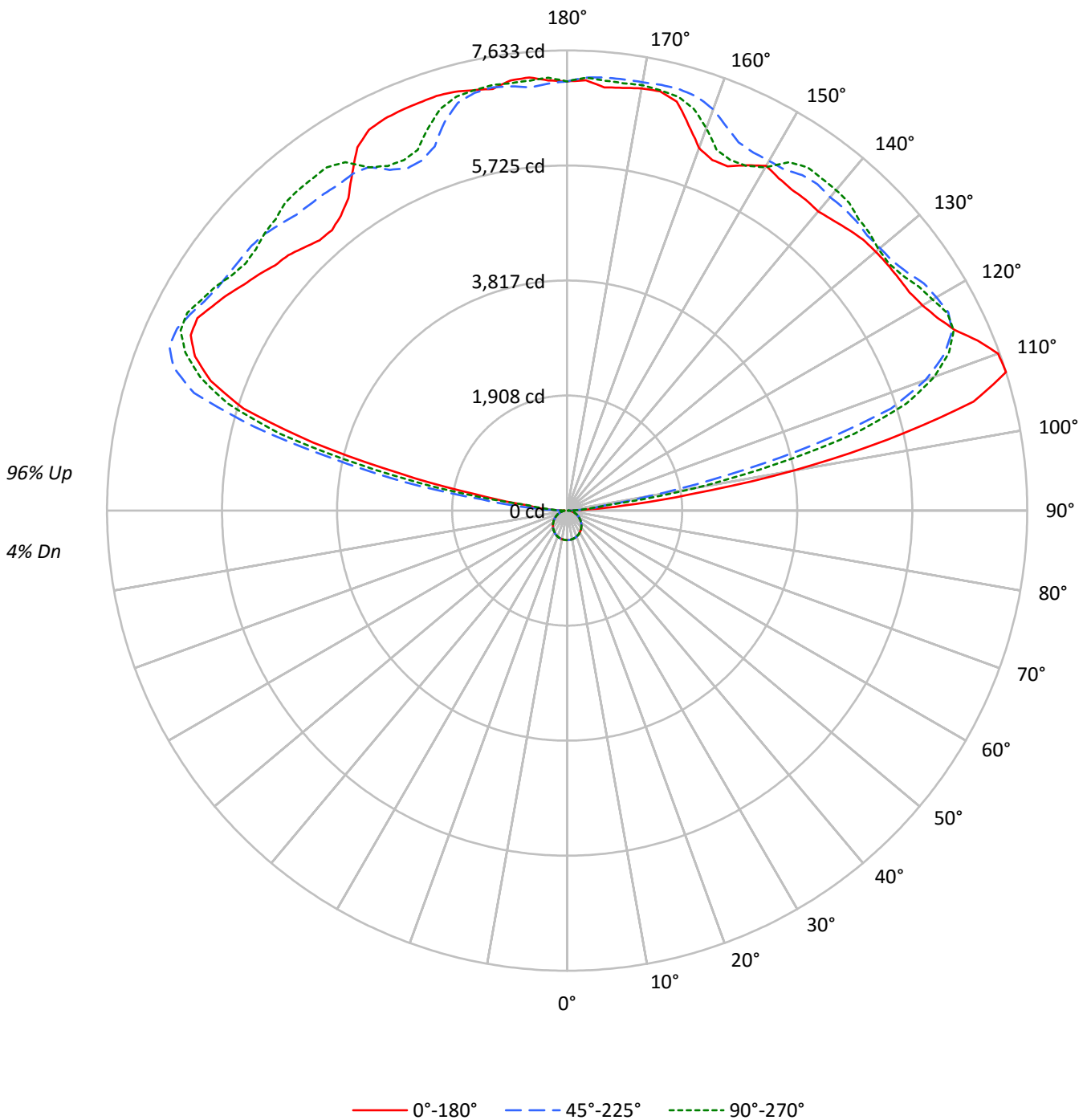
**Summary**

Lumens per Lamp: 45300 (1 lamp)  
Luminaire Lumens: 35475.9 lumens  
Efficiency: 78.3%  
Efficacy: 825.0 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39  
Luminous Opening: Vertical Cylinder (Dia: 3' x H: 0.52')  
CIE Type: Indirect

Input Watts (W): 43  
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	75	75	75	75	65	65	65	65	45	45	45	27	27	27	11	11	11	3
1	69	65	62	60	59	56	54	52	39	38	37	24	23	23	10	9	9	3
2	62	57	52	49	53	49	46	42	34	32	30	21	20	19	8	8	8	2
3	57	50	45	40	49	43	39	35	30	28	25	18	17	16	7	7	6	2
4	52	44	38	34	44	38	33	30	27	24	21	16	15	13	7	6	5	2
5	47	39	33	29	40	34	29	25	24	21	18	14	13	11	6	5	5	1
6	43	35	29	25	37	30	25	22	21	18	16	13	11	10	5	5	4	1
7	40	31	25	21	34	27	22	19	19	16	14	12	10	9	5	4	4	1
8	37	28	22	19	32	24	20	16	17	14	12	11	9	7	4	4	3	1
9	34	25	20	16	29	22	17	14	16	13	10	10	8	7	4	3	3	1
10	32	23	18	14	27	20	16	13	14	11	9	9	7	6	4	3	2	1

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

	0°	90°	180°
0°	745	745	745
5°	732	732	732
10°	719	719	719
15°	704	704	704
20°	688	688	688
25°	672	672	672
30°	652	652	652
35°	633	633	633
40°	610	610	610
45°	587	587	587
50°	561	561	561
55°	533	533	533
60°	500	500	500
65°	464	464	464
70°	427	427	427
75°	390	390	390
80°	354	354	354
85°	322	322	322



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	46.4	0.1	0.1
10°-20°	133.5	0.4	0.3
20°-30°	203.1	0.6	0.4
30°-40°	245.8	0.7	0.5
40°-50°	256.7	0.7	0.6
50°-60°	235.8	0.7	0.5
60°-70°	188.3	0.5	0.4
70°-80°	128.2	0.4	0.3
80°-90°	69.6	0.2	0.2
90°-100°	776.2	2.2	1.7
100°-110°	5033.6	14.2	11.1
110°-120°	6924.6	19.5	15.3
120°-130°	6123.2	17.3	13.5
130°-140°	5187.1	14.6	11.5
140°-150°	4197.0	11.8	9.3
150°-160°	3052.1	8.6	6.7
160°-170°	1993.0	5.6	4.4
170°-180°	681.8	1.9	1.5
0°-30°	382.9	1.1	0.8
0°-40°	628.7	1.8	1.4
0°-60°	1121.2	3.2	2.5
0°-90°	1507.2	4.2	3.3
90°-120°	12734.3	35.9	28.1
90°-150°	28241.7	79.6	62.3
90°-180°	33969.0	95.8	75.0
0°-180°	35475.9	100.0	78.3

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	489	489	489	489	489	
5°	488	488	488	488	488	46
15°	473	473	473	473	473	133
25°	441	441	441	441	441	203
35°	393	393	393	393	393	246
45°	333	333	333	333	333	257
55°	264	264	264	264	264	236
65°	190	190	190	190	190	188
75°	121	121	121	121	121	128
85°	65	65	65	65	65	58
90°	53	27	10	31	46	53
95°	924	396	310	797	452	1357
105°	6976	4274	4930	5379	4367	6800
115°	7092	7047	7074	7141	6889	7100
125°	6714	6887	6796	6851	6540	6033
135°	6594	6788	6837	6721	6171	5105
145°	6496	6794	6952	6602	6325	4093
155°	6299	6736	6413	6265	7169	2960
165°	7025	7232	7108	7003	7192	1945
175°	7047	7210	7159	7044	7211	676
180°	7119	7119	7119	7119	7119	



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CATALOG NUMBER: 1215-XX-36-MH/3/150-T5C/1/40

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	489	489	489	489	489	489	489	489	489
2.5°	489	489	489	489	489	489	489	489	489
5°	488	488	488	488	488	488	488	488	488
7.5°	486	486	486	486	486	486	486	486	486
10°	483	483	483	483	483	483	483	483	483
12.5°	478	478	478	478	478	478	478	478	478
15°	473	473	473	473	473	473	473	473	473
17.5°	466	466	466	466	466	466	466	466	466
20°	459	459	459	459	459	459	459	459	459
22.5°	450	450	450	450	450	450	450	450	450
25°	441	441	441	441	441	441	441	441	441
27.5°	430	430	430	430	430	430	430	430	430
30°	418	418	418	418	418	418	418	418	418
32.5°	406	406	406	406	406	406	406	406	406
35°	393	393	393	393	393	393	393	393	393
37.5°	379	379	379	379	379	379	379	379	379
40°	364	364	364	364	364	364	364	364	364
42.5°	349	349	349	349	349	349	349	349	349
45°	333	333	333	333	333	333	333	333	333
47.5°	316	316	316	316	316	316	316	316	316
50°	299	299	299	299	299	299	299	299	299
52.5°	282	282	282	282	282	282	282	282	282
55°	264	264	264	264	264	264	264	264	264
57.5°	245	245	245	245	245	245	245	245	245
60°	227	227	227	227	227	227	227	227	227
62.5°	208	208	208	208	208	208	208	208	208
65°	190	190	190	190	190	190	190	190	190
67.5°	172	172	172	172	172	172	172	172	172
70°	154	154	154	154	154	154	154	154	154
72.5°	137	137	137	137	137	137	137	137	137
75°	121	121	121	121	121	121	121	121	121
77.5°	105	105	105	105	105	105	105	105	105
80°	91	91	91	91	91	91	91	91	91
82.5°	77	77	77	77	77	77	77	77	77
85°	65	65	65	65	65	65	65	65	65
87.5°	54	54	54	54	54	54	54	54	54
90°	53	21	27	32	10	37	31	18	46
92.5°	229	229	175	182	162	211	250	163	197
95°	924	655	396	415	310	710	797	371	452
97.5°	2053	1057	565	620	636	1812	1431	535	677
100°	3804	2197	1373	1701	2166	3321	2753	1384	1533
102.5°	5453	3298	2724	2988	3534	4908	3961	2716	2831
105°	6976	4730	4274	4477	4930	6291	5379	4277	4367
107.5°	7633	6042	5631	5679	5898	7003	6492	5681	5630
110°	7608	6721	6326	6280	6480	7208	6947	6429	6293



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	7367	7090	6771	6658	6855	7211	7143	6889	6682
115°	7092	7214	7047	6876	7074	7091	7141	7170	6889
117.5°	6926	7164	7127	6923	7105	6964	7049	7245	6914
120°	6806	7061	7073	6847	6999	6833	6946	7193	6787
122.5°	6736	6978	7015	6762	6913	6740	6877	7131	6672
125°	6714	6922	6887	6645	6796	6716	6851	7001	6540
127.5°	6701	6889	6798	6553	6727	6691	6838	6915	6440
130°	6681	6887	6775	6471	6742	6681	6833	6917	6326
132.5°	6655	6857	6752	6444	6808	6684	6798	6907	6272
135°	6594	6794	6788	6425	6837	6642	6721	6967	6171
137.5°	6529	6750	6797	6397	6925	6607	6654	7005	6080
140°	6478	6743	6787	6419	6940	6588	6632	6999	6071
142.5°	6501	6716	6823	6501	6942	6592	6623	7001	6164
145°	6496	6692	6794	6546	6952	6589	6602	6926	6325
147.5°	6536	6677	6706	6650	6851	6618	6622	6737	6634
150°	6602	6561	6698	6804	6573	6616	6581	6589	6957
152.5°	6456	6354	6694	6888	6445	6431	6372	6510	7121
155°	6299	6281	6736	6937	6413	6297	6265	6534	7169
157.5°	6293	6325	6894	7036	6478	6301	6287	6708	7189
160°	6397	6510	7082	7140	6749	6427	6428	6963	7197
162.5°	6704	6835	7192	7192	6987	6742	6759	7142	7210
165°	7025	7032	7232	7194	7108	7017	7003	7220	7192
167.5°	7122	7109	7232	7166	7142	7092	7097	7239	7143
170°	7112	7145	7214	7132	7166	7099	7127	7235	7101
172.5°	7070	7122	7213	7184	7150	7064	7098	7205	7196
175°	7047	7064	7210	7199	7159	7040	7044	7190	7211
177.5°	7143	7090	7189	7156	7187	7125	7091	7189	7141
180°	7119	7119	7119	7119	7119	7119	7119	7119	7119

(END OF REPORT)