

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: 253P261

Luminaire Tested: **1215-XX-44-HAL/4/150-T5C/1/40**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 253P261
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 1215-XX-44-HAL/4/150-T5C/1/40
Description: SHAPER 44 INCH 1215 SERIES DIRECT/INDIRECT INDOOR PENDANT FIXTURE
WITH SHALLOW BOWL
Light Source: FOUR 150 WATT DC BAY HALOGEN INCANDESCENT LAMPS AND ONE 40 WATT T5
CIRCLINE
(4)150QL-2700 LUMENS AND (1)TL5C40W/830 - 3300 LUMENS
Ballast/Driver: -

Summary

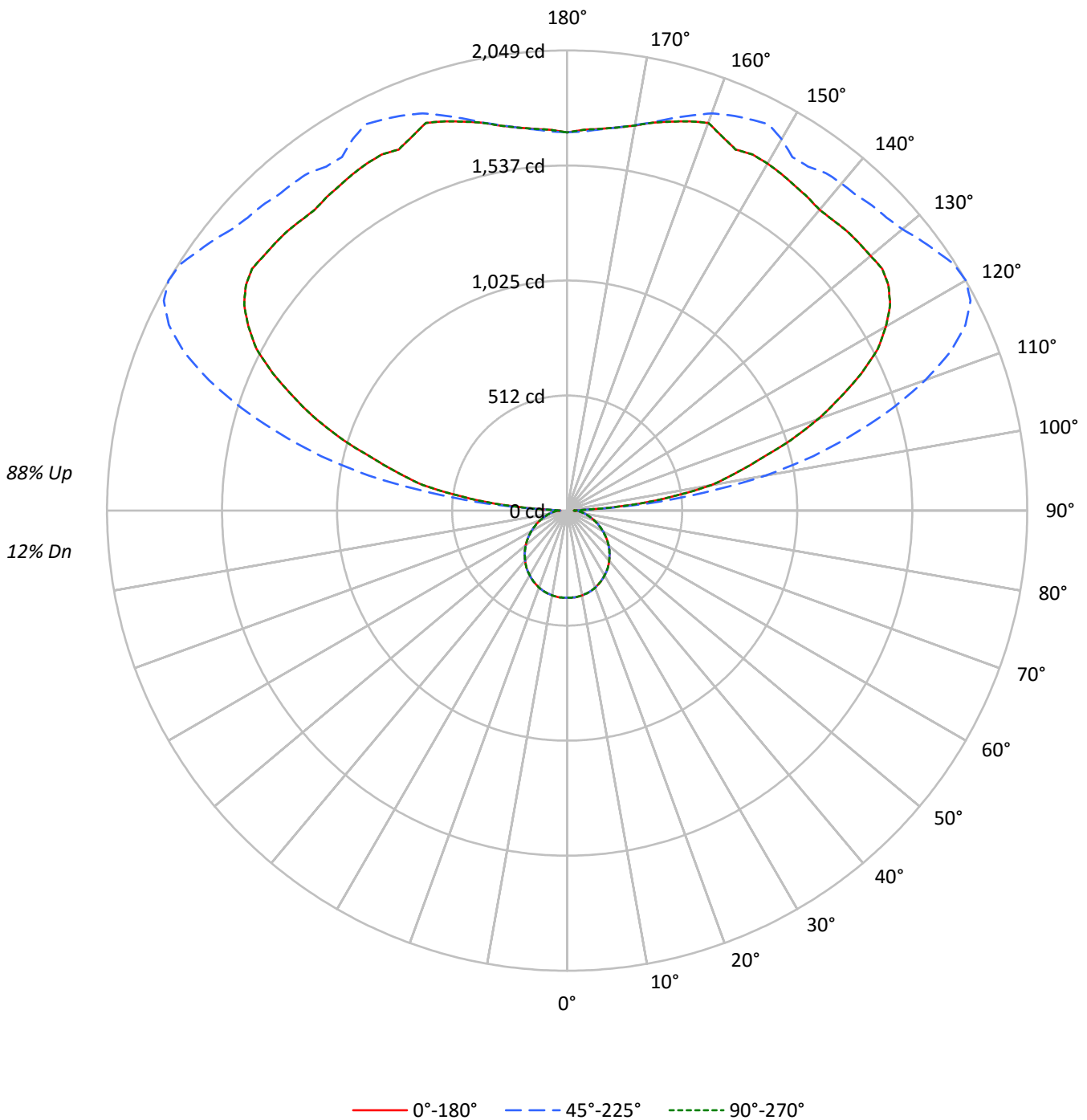
Lumens per Lamp: 14100 (1 lamp)
Luminaire Lumens: 10245.6 lumens
Efficiency: 72.7%
Efficacy: 238.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.4
Luminous Opening: Vertical Cylinder (Dia: 3.67' x H: 0.69')
CIE Type: Semi-Indirect

Input Watts (W): 43
Input Voltage (V): NR
Input Current (A_{in}): 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	71	71	71	71	62	62	62	62	45	45	45	30	30	30	15	15	15	9
1	65	62	59	56	56	54	52	50	39	38	36	26	25	24	13	13	13	7
2	59	54	49	46	51	47	43	40	34	32	30	22	21	20	12	11	10	6
3	54	47	42	38	46	41	37	34	30	27	25	20	18	17	10	9	9	5
4	49	41	36	32	42	36	32	28	27	24	21	17	16	14	9	8	7	4
5	45	37	31	27	39	32	28	24	24	20	18	16	14	12	8	7	6	3
6	41	33	27	23	36	29	24	21	21	18	16	14	12	11	7	6	6	3
7	38	29	24	20	33	26	21	18	19	16	13	13	11	9	7	6	5	3
8	35	26	21	18	30	23	19	16	17	14	12	11	9	8	6	5	4	2
9	32	24	19	15	28	21	17	14	16	13	10	10	8	7	6	5	4	2
10	30	22	17	14	26	19	15	12	14	11	9	10	8	6	5	4	3	2

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	396	396	396
5°	389	389	389
10°	380	380	380
15°	373	373	373
20°	364	364	364
25°	355	355	355
30°	344	344	344
35°	335	335	335
40°	323	323	323
45°	311	311	311
50°	298	298	298
55°	282	282	282
60°	265	265	265
65°	249	249	249
70°	232	232	232
75°	215	215	215
80°	200	200	200
85°	185	185	185



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	36.9	0.4	0.3
10°-20°	106.1	1.0	0.8
20°-30°	161.6	1.6	1.1
30°-40°	196.3	1.9	1.4
40°-50°	205.9	2.0	1.5
50°-60°	190.3	1.9	1.3
60°-70°	154.6	1.5	1.1
70°-80°	109.4	1.1	0.8
80°-90°	63.3	0.6	0.4
90°-100°	365.2	3.6	2.6
100°-110°	1168.3	11.4	8.3
110°-120°	1668.0	16.3	11.8
120°-130°	1679.9	16.4	11.9
130°-140°	1440.1	14.1	10.2
140°-150°	1162.8	11.3	8.2
150°-160°	860.3	8.4	6.1
160°-170°	512.8	5.0	3.6
170°-180°	163.8	1.6	1.2
0°-30°	304.5	3.0	2.2
0°-40°	500.8	4.9	3.6
0°-60°	896.9	8.8	6.4
0°-90°	1224.3	11.9	8.7
90°-120°	3201.6	31.2	22.7
90°-150°	7484.4	73.0	53.1
90°-180°	9021.0	88.0	64.0
0°-180°	10245.6	100.0	72.7

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	388	388	388	388	388	
5°	388	388	388	388	388	37
15°	376	376	376	376	376	106
25°	351	351	351	351	351	162
35°	314	314	314	314	314	196
45°	267	267	267	267	267	206
55°	213	213	213	213	213	190
65°	156	156	156	156	156	155
75°	103	103	103	103	103	109
85°	59	59	59	59	59	53
90°	30	29	27	29	30	23
95°	287	334	356	334	287	302
105°	892	1074	1325	1074	892	956
115°	1446	1688	1957	1688	1446	1420
125°	1747	1874	2010	1874	1747	1552
135°	1761	1876	1921	1876	1761	1362
145°	1766	1868	1870	1868	1766	1110
155°	1774	1843	1923	1843	1774	830
165°	1793	1807	1808	1807	1793	509
175°	1706	1705	1704	1705	1706	164
180°	1684	1684	1684	1684	1684	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	388	388	388	388	388	388	388	388	388	388
2.5°	388	388	388	388	388	388	388	388	388	388
5°	388	388	388	388	388	388	388	388	388	388
7.5°	386	386	386	386	386	386	386	386	386	386
10°	383	383	383	383	383	383	383	383	383	383
12.5°	380	380	380	380	380	380	380	380	380	380
15°	376	376	376	376	376	376	376	376	376	376
17.5°	371	371	371	371	371	371	371	371	371	371
20°	365	365	365	365	365	365	365	365	365	365
22.5°	358	358	358	358	358	358	358	358	358	358
25°	351	351	351	351	351	351	351	351	351	351
27.5°	342	342	342	342	342	342	342	342	342	342
30°	333	333	333	333	333	333	333	333	333	333
32.5°	324	324	324	324	324	324	324	324	324	324
35°	314	314	314	314	314	314	314	314	314	314
37.5°	303	303	303	303	303	303	303	303	303	303
40°	291	291	291	291	291	291	291	291	291	291
42.5°	279	279	279	279	279	279	279	279	279	279
45°	267	267	267	267	267	267	267	267	267	267
47.5°	254	254	254	254	254	254	254	254	254	254
50°	241	241	241	241	241	241	241	241	241	241
52.5°	227	227	227	227	227	227	227	227	227	227
55°	213	213	213	213	213	213	213	213	213	213
57.5°	198	198	198	198	198	198	198	198	198	198
60°	184	184	184	184	184	184	184	184	184	184
62.5°	170	170	170	170	170	170	170	170	170	170
65°	156	156	156	156	156	156	156	156	156	156
67.5°	142	142	142	142	142	142	142	142	142	142
70°	129	129	129	129	129	129	129	129	129	129
72.5°	116	116	116	116	116	116	116	116	116	116
75°	103	103	103	103	103	103	103	103	103	103
77.5°	91	91	91	91	91	91	91	91	91	91
80°	80	80	80	80	80	80	80	80	80	80
82.5°	69	69	69	69	69	69	69	69	69	69
85°	59	59	59	59	59	59	59	59	59	59
87.5°	50	50	50	50	50	50	50	50	50	50
90°	30	29	29	28	27	27	28	29	29	30
92.5°	61	64	66	69	72	72	69	66	64	61
95°	287	309	331	344	356	356	344	331	309	287
97.5°	469	505	541	578	616	616	578	541	505	469
100°	651	689	726	804	896	896	804	726	689	651
102.5°	767	828	888	997	1123	1123	997	888	828	767
105°	892	966	1041	1173	1325	1325	1173	1041	966	892
107.5°	1044	1136	1227	1367	1522	1522	1367	1227	1136	1044
110°	1189	1292	1395	1540	1697	1697	1540	1395	1292	1189



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
112.5°	1316	1425	1534	1683	1847	1847	1683	1534	1425	1316
115°	1446	1549	1652	1797	1957	1957	1797	1652	1549	1446
117.5°	1560	1648	1737	1873	2025	2025	1873	1737	1648	1560
120°	1639	1715	1794	1914	2049	2049	1914	1794	1715	1639
122.5°	1705	1773	1840	1937	2042	2042	1937	1840	1773	1705
125°	1747	1803	1855	1930	2010	2010	1930	1855	1803	1747
127.5°	1769	1812	1857	1916	1981	1981	1916	1857	1812	1769
130°	1764	1808	1851	1899	1949	1949	1899	1851	1808	1764
132.5°	1763	1808	1854	1894	1930	1930	1894	1854	1808	1763
135°	1761	1815	1869	1898	1921	1921	1898	1869	1815	1761
137.5°	1753	1811	1869	1893	1905	1905	1893	1869	1811	1753
140°	1748	1808	1866	1890	1901	1901	1890	1866	1808	1748
142.5°	1759	1812	1866	1885	1894	1894	1885	1866	1812	1759
145°	1766	1816	1866	1875	1870	1870	1875	1866	1816	1766
147.5°	1777	1823	1868	1874	1866	1866	1874	1868	1823	1777
150°	1784	1821	1858	1885	1910	1910	1885	1858	1821	1784
152.5°	1787	1812	1834	1883	1940	1940	1883	1834	1812	1787
155°	1774	1804	1832	1876	1923	1923	1876	1832	1804	1774
157.5°	1803	1836	1869	1889	1905	1905	1889	1869	1836	1803
160°	1837	1849	1862	1873	1882	1882	1873	1862	1849	1837
162.5°	1817	1824	1833	1839	1845	1845	1839	1833	1824	1817
165°	1793	1800	1807	1808	1808	1808	1807	1800	1793	1793
167.5°	1769	1772	1772	1773	1771	1771	1773	1772	1772	1769
170°	1741	1741	1741	1742	1743	1743	1742	1741	1741	1741
172.5°	1720	1720	1718	1719	1720	1720	1719	1718	1720	1720
175°	1706	1705	1705	1704	1704	1704	1705	1705	1706	1706
177.5°	1697	1693	1691	1690	1689	1689	1691	1693	1697	1697
180°	1684	1684	1684	1684	1684	1684	1684	1684	1684	1684

(END OF REPORT)