

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: 19863

Luminaire Tested: **695-WP-DB-MH1/70**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 19863
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 695-WP-DB-MH1/70
Description: EXTERIOR WALL MOUNT LUMINAIRE WITH WHITE INTERIOR AND RIBBED CLEAR
FLAT GLASS LENS
Light Source: ONE VENTURE 70 WATT MH LAMP

MH70W/U. LUMEN RATING = 5000 LMS.

Ballast/Driver: -

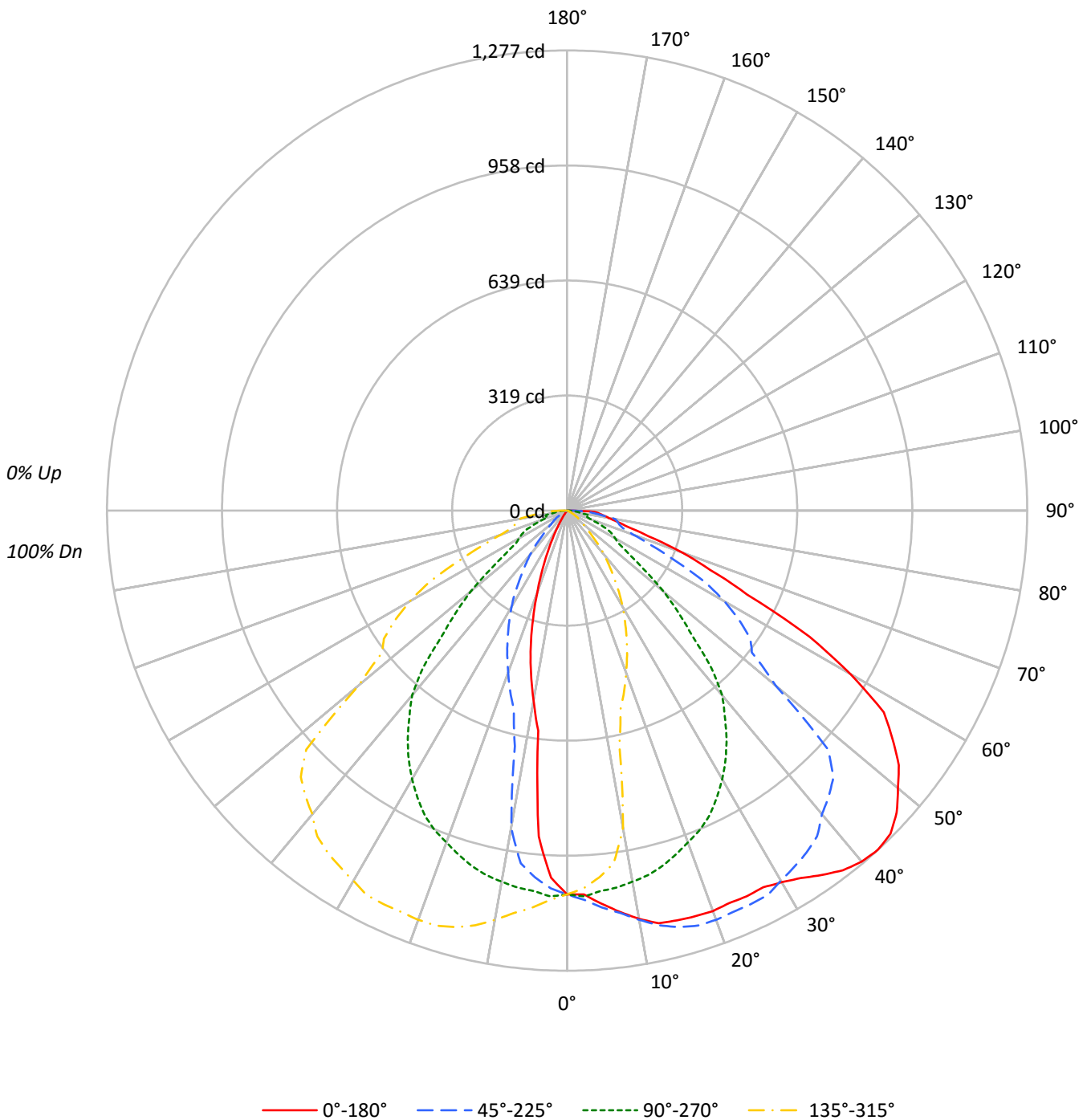
Summary

Lumens per Lamp: 5000 (1 lamp)
Luminaire Lumens: 2216.5 lumens
Efficiency: 44.3%
Efficacy: -
Spacing Criteria (0/90/45): 0.84 / 1.2 / 1.25
Luminous Opening: Rectangular (W 0.42' x L: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 0
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										
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	50	30	10	50	30	10	0														
RCR																																						
0	53	53	53	53	52	52	52	52	49	49	49	47	47	47	45	45	45	44																				
1	49	47	45	44	48	46	44	43	44	43	41	42	41	40	41	40	39	38																				
2	45	41	39	36	44	41	38	36	39	37	35	38	36	34	36	35	34	33																				
3	41	37	33	31	40	36	33	31	35	32	30	34	31	30	33	31	29	28																				
4	38	33	29	27	37	32	29	26	31	28	26	30	28	26	29	27	25	24																				
5	35	30	26	23	34	29	26	23	28	25	23	27	25	23	27	24	22	21																				
6	32	27	23	20	32	26	23	20	26	23	20	25	22	20	24	22	20	19																				
7	30	25	21	18	29	24	21	18	23	20	18	23	20	18	22	20	18	17																				
8	28	22	19	16	28	22	19	16	22	18	16	21	18	16	21	18	16	15																				
9	26	21	17	15	26	20	17	15	20	17	15	19	17	15	19	16	15	14																				
10	25	19	16	14	24	19	16	14	18	16	13	18	15	13	18	15	13	13																				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	40745	40745	40745	40745
5°	42041	40697	34842	40697
10°	44695	40620	20807	40620
15°	46618	40440	15428	40440
20°	48139	39888	9904	39888
25°	49828	39424	5533	39424
30°	52601	38029	2244	38029
35°	57628	36007	700	36007
40°	63500	33416	0	33416
45°	68631	26512	0	26512
50°	71339	20786	0	20786
55°	73465	13825	0	13825
60°	69418	11758	0	11758
65°	49907	11178	0	11178
70°	37813	7471	0	7471
75°	25686	9148	0	9148
80°	25839	8305	0	8305
85°	38666	9173	0	9173



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	97.3	4.4	1.9
10°-20°	258.4	11.7	5.2
20°-30°	374.5	16.9	7.5
30°-40°	432.0	19.5	8.6
40°-50°	430.6	19.4	8.6
50°-60°	312.8	14.1	6.3
60°-70°	183.3	8.3	3.7
70°-80°	91.3	4.1	1.8
80°-90°	36.4	1.6	0.7
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	730.1	32.9	14.6
0°-40°	1162.1	52.4	23.2
0°-60°	1905.5	86.0	38.1
0°-90°	2216.5	100.0	44.3
90°-120°	0.0	0.0	0.0
90°-150°	0.0	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	2216.5	100.0	44.3

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1065	1065	1065	1065	1065	
5°	1095	1060	907	1060	1095	106
15°	1177	1021	390	1021	1177	333
25°	1181	934	131	934	1181	547
35°	1234	771	15	771	1234	776
45°	1269	490	0	490	1269	971
55°	1102	207	0	207	1102	975
65°	551	124	0	124	551	582
75°	174	62	0	62	174	205
85°	88	21	0	21	88	88
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1065.2	1065.2	1065.2	1065.2	1065.2	1065.2	1065.2	1065.2	1065.2	1065.2	1065.2
2.5°	1066.2	1080.0	1081.2	1081.7	1071.6	1059.1	1048.8	1035.0	1020.1	1035.0	1048.8
5°	1094.9	1105.2	1105.7	1092.5	1059.9	1037.5	1021.8	984.2	907.4	984.2	1021.8
7.5°	1123.2	1134.5	1126.1	1101.1	1055.2	1016.4	987.2	756.4	616.2	756.4	987.2
10°	1150.7	1165.1	1153.1	1117.8	1045.8	998.0	893.6	582.6	535.7	582.6	893.6
12.5°	1173.0	1183.8	1178.9	1131.0	1036.5	966.8	669.5	518.5	463.3	518.5	669.5
15°	1177.2	1196.3	1196.8	1135.2	1021.2	942.7	571.0	453.7	389.6	453.7	571.0
17.5°	1180.6	1208.4	1207.6	1144.8	1001.3	918.2	526.1	390.8	315.2	390.8	526.1
20°	1182.6	1216.0	1208.4	1146.0	979.9	891.2	478.7	325.3	243.3	325.3	478.7
22.5°	1178.4	1218.4	1205.2	1138.1	960.0	851.6	434.5	261.2	183.4	261.2	434.5
25°	1180.6	1226.8	1205.2	1130.3	934.1	778.5	390.1	210.9	131.1	210.9	390.1
27.5°	1178.4	1225.0	1203.4	1119.0	899.0	666.5	348.1	163.5	86.2	163.5	348.1
30°	1190.9	1230.4	1186.0	1096.2	861.0	546.0	308.6	121.5	50.8	121.5	308.6
32.5°	1208.8	1233.4	1173.0	1062.0	818.6	465.0	267.3	89.4	30.0	89.4	267.3
35°	1234.1	1237.1	1158.5	1030.4	771.1	401.4	225.4	66.5	15.0	66.5	225.4
37.5°	1257.9	1243.0	1139.4	987.6	718.6	351.1	190.0	48.4	0.5	48.4	190.0
40°	1271.7	1243.0	1100.3	927.3	669.2	308.6	160.1	34.1	0.0	34.1	160.1
42.5°	1276.6	1237.6	1074.6	863.7	592.4	267.8	126.9	22.1	0.0	22.1	126.9
45°	1268.7	1231.7	1045.3	795.9	490.1	230.0	96.5	14.2	0.0	14.2	96.5
47.5°	1240.5	1213.0	981.8	634.1	418.1	193.5	70.0	10.8	0.0	10.8	70.0
50°	1198.8	1167.6	755.2	551.4	349.3	161.8	57.4	7.6	0.0	7.6	57.4
52.5°	1160.2	1104.0	646.2	480.7	268.1	124.7	47.4	2.5	0.0	2.5	47.4
55°	1101.6	869.1	620.9	373.4	207.3	93.5	38.3	0.5	0.0	0.5	38.3
57.5°	1042.1	719.1	565.6	291.9	167.7	70.0	29.2	0.0	0.0	0.0	29.2
60°	907.4	623.3	504.0	231.3	153.7	61.6	21.6	0.5	0.0	0.5	21.6
62.5°	758.8	544.3	433.3	207.9	141.7	55.0	15.0	0.5	0.0	0.5	15.0
65°	551.4	473.3	333.1	191.2	123.5	46.6	10.1	0.0	0.0	0.0	10.1
67.5°	429.6	411.2	255.3	175.0	93.4	40.0	7.1	0.5	0.0	0.5	7.1
70°	338.1	358.9	194.2	145.6	66.8	29.2	5.9	0.5	0.0	0.5	5.9
72.5°	236.7	307.4	161.8	109.7	57.4	20.4	4.2	0.0	0.0	0.0	4.2
75°	173.8	258.3	149.8	86.2	61.9	19.1	3.4	0.0	0.0	0.0	3.4
77.5°	139.7	207.9	143.1	84.5	60.8	17.9	2.9	0.5	0.0	0.5	2.9
80°	117.3	164.2	134.8	88.6	37.7	12.5	1.7	0.5	0.0	0.5	1.7
82.5°	100.7	118.1	94.0	62.8	30.2	6.6	1.2	0.0	0.0	0.0	1.2
85°	88.1	89.4	70.7	42.0	20.9	3.4	1.2	0.0	0.0	0.0	1.2
87.5°	76.1	68.2	47.9	23.8	6.9	1.2	0.5	0.0	0.0	0.0	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1065.2	1065.2	1065.2	1065.2	1065.2	1065.2
2.5°	1059.1	1071.6	1081.7	1081.2	1080.0	1066.2
5°	1037.5	1059.9	1092.5	1105.7	1105.2	1094.9
7.5°	1016.4	1055.2	1101.1	1126.1	1134.5	1123.2
10°	998.0	1045.8	1117.8	1153.1	1165.1	1150.7
12.5°	966.8	1036.5	1131.0	1178.9	1183.8	1173.0
15°	942.7	1021.2	1135.2	1196.8	1196.3	1177.2
17.5°	918.2	1001.3	1144.8	1207.6	1208.4	1180.6
20°	891.2	979.9	1146.0	1208.4	1216.0	1182.6
22.5°	851.6	960.0	1138.1	1205.2	1218.4	1178.4
25°	778.5	934.1	1130.3	1205.2	1226.8	1180.6
27.5°	666.5	899.0	1119.0	1203.4	1225.0	1178.4
30°	546.0	861.0	1096.2	1186.0	1230.4	1190.9
32.5°	465.0	818.6	1062.0	1173.0	1233.4	1208.8
35°	401.4	771.1	1030.4	1158.5	1237.1	1234.1
37.5°	351.1	718.6	987.6	1139.4	1243.0	1257.9
40°	308.6	669.2	927.3	1100.3	1243.0	1271.7
42.5°	267.8	592.4	863.7	1074.6	1237.6	1276.6
45°	230.0	490.1	795.9	1045.3	1231.7	1268.7
47.5°	193.5	418.1	634.1	981.8	1213.0	1240.5
50°	161.8	349.3	551.4	755.2	1167.6	1198.8
52.5°	124.7	268.1	480.7	646.2	1104.0	1160.2
55°	93.5	207.3	373.4	620.9	869.1	1101.6
57.5°	70.0	167.7	291.9	565.6	719.1	1042.1
60°	61.6	153.7	231.3	504.0	623.3	907.4
62.5°	55.0	141.7	207.9	433.3	544.3	758.8
65°	46.6	123.5	191.2	333.1	473.3	551.4
67.5°	40.0	93.4	175.0	255.3	411.2	429.6
70°	29.2	66.8	145.6	194.2	358.9	338.1
72.5°	20.4	57.4	109.7	161.8	307.4	236.7
75°	19.1	61.9	86.2	149.8	258.3	173.8
77.5°	17.9	60.8	84.5	143.1	207.9	139.7
80°	12.5	37.7	88.6	134.8	164.2	117.3
82.5°	6.6	30.2	62.8	94.0	118.1	100.7
85°	3.4	20.9	42.0	70.7	89.4	88.1
87.5°	1.2	6.9	23.8	47.9	68.2	76.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)