

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P581991

Luminaire Tested: **HCC6W25D010BZ-HM60525827-61RWWH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581991  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W25D010BZ-HM60525827-61RWWH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

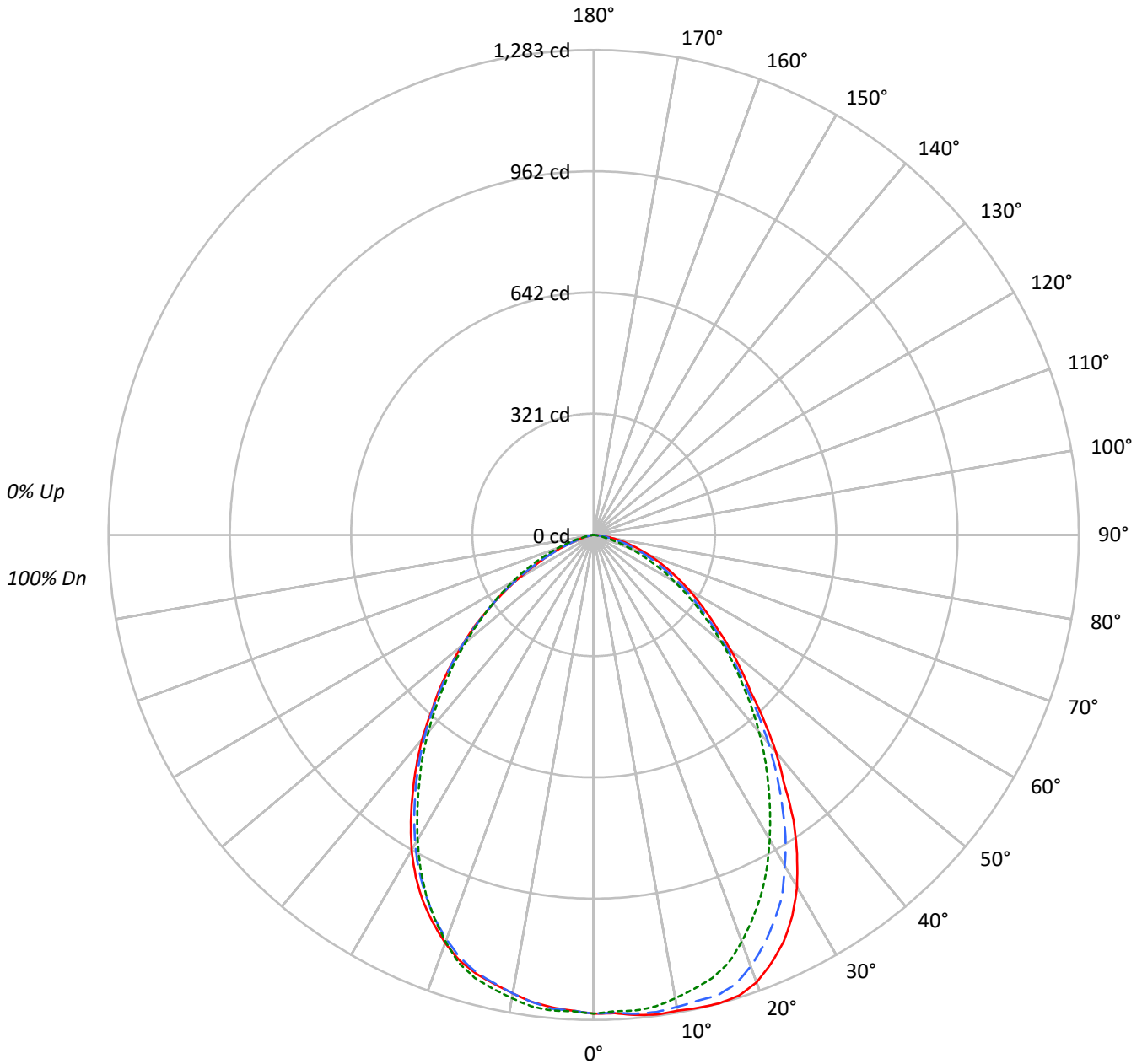
Lumens per Lamp: N/A  
Luminaire Lumens: 2481.4 lumens  
Efficiency: N/A  
Efficacy: 92.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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									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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77																			
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67																			
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59																			
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53																			
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47																			
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42																			
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38																			
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35																			
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32																			

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

	0°	90°	180°
0°	69424	69424	69424
5°	70146	69502	69051
10°	71147	69298	68558
15°	72810	68860	68196
20°	73495	66809	67002
25°	71877	63451	64655
30°	68074	58939	60940
35°	61650	53866	55874
40°	53686	48698	50480
45°	45547	43105	44648
50°	40340	37645	38643
55°	35535	32200	32047
60°	31840	27114	24932
65°	28408	21753	17862
70°	25004	15708	11172
75°	21096	9510	6312
80°	16258	4199	2620
85°	9372	1006	1006



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.2	4.8
10°-20°	345.5	13.9
20°-30°	499.4	20.1
30°-40°	525.5	21.2
40°-50°	441.8	17.8
50°-60°	310.1	12.5
60°-70°	170.6	6.9
70°-80°	60.6	2.4
80°-90°	7.9	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	965.1	38.9
0°-40°	1490.6	60.1
0°-60°	2242.4	90.4
0°-90°	2481.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2481.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1266	1266	1266	1266	1266	
5°	1275	1271	1263	1258	1255	122
15°	1283	1261	1213	1198	1202	362
25°	1188	1129	1049	1051	1069	544
35°	921	868	805	822	835	571
45°	588	571	556	569	576	461
55°	372	352	337	337	335	335
65°	219	196	168	138	138	218
75°	100	80	45	30	30	107
85°	15	8	2	2	2	21
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°
0°	1266.4	1266.4	1266.4	1266.4	1266.4	1266.4	1266.4	1266.4	1266.4
2.5°	1266.4	1266.4	1264.8	1264.8	1261.4	1261.4	1259.8	1259.8	1259.8
5°	1274.7	1274.7	1271.4	1266.4	1263.0	1258.1	1258.1	1256.4	1254.8
7.5°	1279.7	1278.1	1273.0	1266.4	1258.1	1249.7	1246.5	1248.1	1246.5
10°	1278.1	1274.7	1268.0	1254.8	1244.9	1233.2	1231.6	1229.8	1231.6
12.5°	1281.3	1276.3	1263.0	1246.5	1229.8	1216.5	1214.9	1214.9	1216.5
15°	1282.9	1278.1	1261.4	1236.5	1213.3	1200.0	1198.4	1200.0	1201.6
17.5°	1278.1	1271.4	1246.5	1213.3	1186.7	1173.4	1173.4	1176.7	1180.1
20°	1259.8	1249.7	1214.9	1175.1	1145.2	1135.2	1138.6	1145.2	1148.5
22.5°	1226.6	1214.9	1175.1	1130.3	1098.8	1090.5	1098.8	1107.0	1110.4
25°	1188.3	1175.1	1128.6	1082.1	1049.0	1039.0	1050.6	1063.9	1068.9
27.5°	1137.0	1121.9	1078.8	1025.7	992.5	987.5	1000.8	1015.8	1019.1
30°	1075.4	1058.9	1010.8	961.1	931.1	929.5	944.4	957.7	962.7
32.5°	1000.8	985.9	944.4	894.6	868.1	868.1	883.0	894.6	899.5
35°	921.2	904.5	868.1	826.6	804.9	806.7	821.6	829.9	834.9
37.5°	826.6	821.6	793.4	758.4	743.5	746.9	758.4	765.1	770.1
40°	750.2	736.9	718.7	690.4	680.5	683.8	695.4	702.1	705.4
42.5°	667.2	659.0	643.9	624.1	617.5	622.4	632.4	637.4	635.6
45°	587.5	585.9	571.0	559.3	556.0	562.6	569.2	574.2	575.9
47.5°	529.5	522.9	509.6	501.2	497.9	504.6	511.2	514.5	514.5
50°	473.0	466.4	453.1	444.8	441.4	448.1	453.1	456.5	453.1
52.5°	416.6	410.0	398.3	388.4	386.7	390.1	391.7	393.3	396.7
55°	371.8	365.1	351.8	340.2	336.9	338.6	336.9	336.9	335.3
57.5°	328.7	322.0	308.7	295.5	290.4	288.8	283.8	282.2	280.5
60°	290.4	282.2	268.9	254.0	247.3	240.7	232.3	227.4	227.4
62.5°	254.0	245.6	230.7	217.4	207.5	195.8	182.6	175.9	175.9
65°	219.0	212.5	195.8	180.9	167.7	152.7	137.7	134.4	137.7
67.5°	185.9	179.3	162.6	147.7	131.1	112.9	99.6	99.6	102.9
70°	156.0	149.4	134.4	116.2	98.0	79.7	69.7	69.7	69.7
72.5°	127.8	121.2	104.6	88.0	69.7	51.5	46.5	48.1	46.5
75°	99.6	94.6	79.7	61.4	44.9	31.6	29.8	28.2	29.8
77.5°	74.7	69.7	56.4	39.8	24.9	18.3	16.5	16.5	16.5
80°	51.5	46.5	36.5	23.2	13.3	8.3	8.3	8.3	8.3
82.5°	31.6	26.6	19.9	11.7	5.0	5.0	5.0	5.0	5.0
85°	14.9	11.7	8.3	3.3	1.6	1.6	1.6	1.6	1.6
87.5°	3.3	3.3	1.6	1.6	0.0	1.6	1.6	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report



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— 0°-180°    - - 45°-225°    - - - - 90°-270°

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