

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: P581577

Luminaire Tested: **HCC6W10D010BZ-HM60525830-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581577
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: HCC6W10D010BZ-HM60525830-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

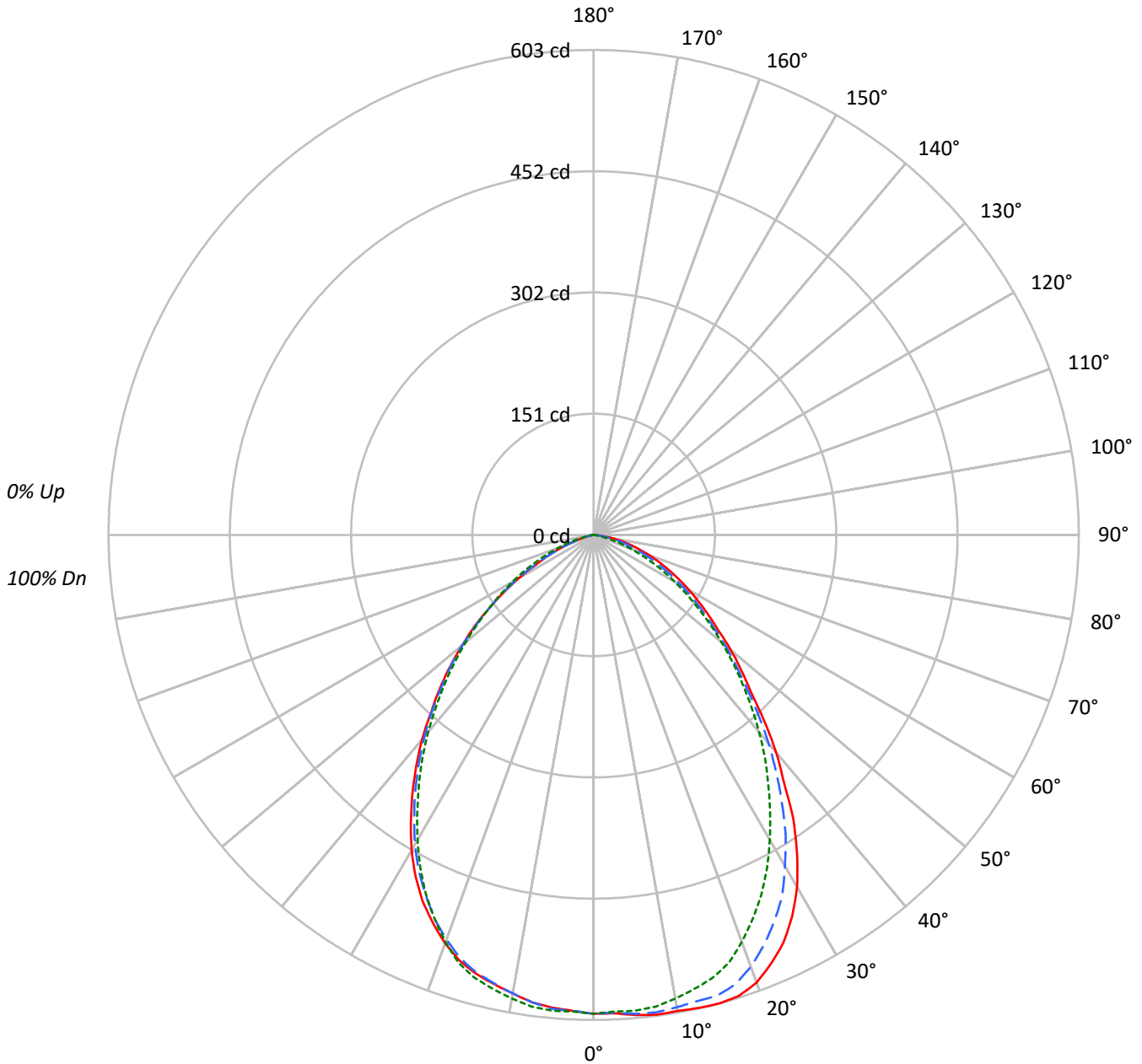
Lumens per Lamp: N/A
Luminaire Lumens: 1166.7 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			88
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77			77
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67			67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59			59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53			53
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47			47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42			42
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38			38
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35			35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32			32

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	32640	32640	32640
5°	32979	32677	32467
10°	33450	32576	32231
15°	34234	32372	32066
20°	34554	31415	31509
25°	33800	29832	30401
30°	32011	27707	28650
35°	28984	25324	26274
40°	25240	22893	23737
45°	21413	20266	20994
50°	18967	17705	18166
55°	16707	15139	15072
60°	14966	12751	11721
65°	13361	10222	8406
70°	11765	7389	5257
75°	9934	4469	2965
80°	7640	1957	1200
85°	4403	503	503



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.5	4.8
10°-20°	162.4	13.9
20°-30°	234.8	20.1
30°-40°	247.1	21.2
40°-50°	207.7	17.8
50°-60°	145.8	12.5
60°-70°	80.2	6.9
70°-80°	28.5	2.4
80°-90°	3.7	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°	453.8	38.9
0°-40°	700.8	60.1
0°-60°	1054.3	90.4
0°-90°	1166.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1166.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	595	595	595	595	595	
5°	599	598	594	592	590	57
15°	603	593	570	563	565	170
25°	559	531	493	494	503	256
35°	433	408	378	386	393	268
45°	276	268	261	268	271	217
55°	175	165	158	158	158	157
65°	103	92	79	65	65	103
75°	47	38	21	14	14	50
85°	7	4	1	1	1	10
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°	595.4	595.4	595.4	595.4	595.4	595.4	595.4	595.4	595.4
2.5°	595.4	595.4	594.6	594.6	593.1	593.1	592.3	592.3	592.3
5°	599.3	599.3	597.8	595.4	593.8	591.6	591.6	590.8	590.0
7.5°	601.7	600.9	598.6	595.4	591.6	587.6	586.0	586.8	586.0
10°	600.9	599.3	596.2	590.0	585.2	579.8	579.0	578.2	579.0
12.5°	602.5	600.1	593.8	586.0	578.2	572.0	571.2	571.2	572.0
15°	603.2	600.9	593.1	581.4	570.4	564.2	563.4	564.2	565.0
17.5°	600.9	597.8	586.0	570.4	558.0	551.7	551.7	553.3	554.8
20°	592.3	587.6	571.2	552.5	538.5	533.7	535.3	538.5	540.1
22.5°	576.8	571.2	552.5	531.5	516.6	512.7	516.6	520.5	522.1
25°	558.8	552.5	530.7	508.8	493.2	488.6	494.0	500.2	502.6
27.5°	534.5	527.5	507.2	482.2	466.6	464.3	470.6	477.6	479.2
30°	505.7	497.9	475.2	451.9	437.7	437.1	444.1	450.3	452.6
32.5°	470.6	463.6	444.1	420.7	408.1	408.1	415.2	420.7	422.9
35°	433.1	425.3	408.1	388.6	378.4	379.2	386.2	390.2	392.6
37.5°	388.6	386.2	373.0	356.6	349.6	351.1	356.6	359.7	362.1
40°	352.7	346.5	337.9	324.7	319.9	321.5	327.0	330.1	331.7
42.5°	313.7	309.8	302.8	293.4	290.2	292.6	297.4	299.6	298.8
45°	276.2	275.5	268.4	263.0	261.4	264.5	267.7	270.0	270.8
47.5°	248.9	245.9	239.5	235.7	234.1	237.3	240.3	241.9	241.9
50°	222.4	219.3	213.0	209.2	207.6	210.7	213.0	214.6	213.0
52.5°	195.8	192.8	187.3	182.6	181.8	183.4	184.2	185.0	186.6
55°	174.8	171.7	165.4	160.0	158.4	159.2	158.4	158.4	157.7
57.5°	154.5	151.3	145.1	138.9	136.5	135.8	133.5	132.7	131.9
60°	136.5	132.7	126.4	119.4	116.3	113.2	109.2	106.9	106.9
62.5°	119.4	115.5	108.4	102.2	97.6	92.0	85.8	82.7	82.7
65°	103.0	99.8	92.0	85.0	78.8	71.8	64.8	63.2	64.8
67.5°	87.4	84.3	76.5	69.5	61.7	53.1	46.9	46.9	48.3
70°	73.4	70.2	63.2	54.7	46.1	37.5	32.8	32.8	32.8
72.5°	60.1	56.9	49.1	41.3	32.8	24.2	21.8	22.6	21.8
75°	46.9	44.5	37.5	28.9	21.1	14.8	14.0	13.2	14.0
77.5°	35.1	32.8	26.5	18.7	11.7	8.6	7.8	7.8	7.8
80°	24.2	21.8	17.2	11.0	6.2	3.8	3.8	3.8	3.8
82.5°	14.8	12.5	9.4	5.4	2.4	2.4	2.4	2.4	2.4
85°	7.0	5.4	3.8	1.6	0.8	0.8	0.8	0.8	0.8
87.5°	1.6	1.6	0.8	0.8	0.0	0.8	0.8	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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— 0°-180° - - 45°-225° - - - - 90°-270°

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