

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: P581727

Luminaire Tested: **HC615D010-HM60525830-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581727
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC615D010-HM60525830-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1351.0 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

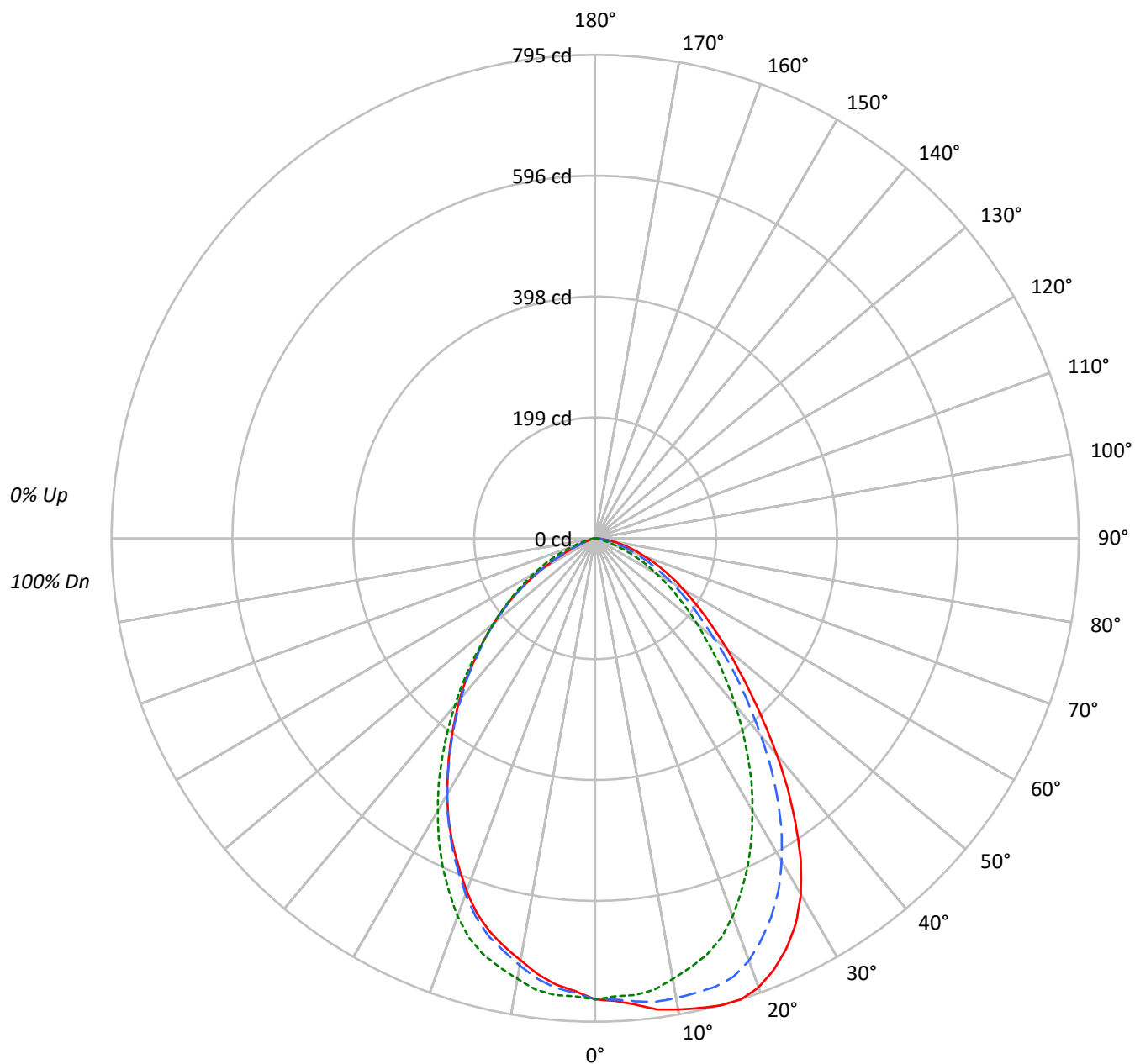
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89		
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78		
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69		
4	89	79	71	66	87	78	71	65	75	69	64	73	68	64	71	66	63	61		
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54		
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	49		
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44		
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40		
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37		
10	60	48	40	36	58	47	40	36	46	40	36	45	40	35	45	39	35	34		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	41565	41565	41565
5°	42367	41487	40546
10°	43803	40953	39233
15°	45142	40239	38002
20°	45848	38568	36018
25°	45015	35923	33534
30°	42791	32733	30777
35°	38467	29259	27760
40°	33198	25641	24796
45°	28104	22072	21498
50°	24102	18643	18456
55°	20893	15694	15082
60°	18244	12740	10756
65°	16046	9819	5954
70°	13848	6491	2917
75°	11755	3177	1123
80°	9092	1357	695
85°	5346	629	629



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.5	5.3
10°-20°	202.3	15.0
20°-30°	284.9	21.1
30°-40°	291.1	21.5
40°-50°	234.7	17.4
50°-60°	157.4	11.7
60°-70°	79.7	5.9
70°-80°	25.5	1.9
80°-90°	3.9	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°	558.8	41.4
0°-40°	849.8	62.9
0°-60°	1242.0	91.9
0°-90°	1351.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1351.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	758	758	758	758	758	
5°	770	764	754	742	737	74
15°	795	764	709	677	670	225
25°	744	686	594	558	554	341
35°	575	522	437	413	415	358
45°	362	334	285	275	277	282
55°	219	194	164	157	158	197
65°	124	102	76	50	46	123
75°	56	40	15	5	5	60
85°	8	4	1	1	1	11
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°	758.2	758.2	758.2	758.2	758.2	758.2	758.2	758.2	758.2
2.5°	761.4	760.2	759.2	757.0	753.9	750.7	748.5	746.4	745.4
5°	769.9	767.7	764.5	760.2	753.9	746.4	742.2	737.9	736.8
7.5°	781.6	777.4	768.8	759.2	748.5	737.9	730.4	726.2	723.0
10°	786.9	779.5	767.7	751.7	735.7	723.0	713.3	707.0	704.8
12.5°	791.2	782.7	765.6	744.2	723.0	705.9	695.2	689.9	687.8
15°	795.4	786.9	763.5	735.7	709.0	688.8	677.1	671.8	669.6
17.5°	795.4	783.7	756.0	720.8	688.8	664.3	652.6	647.3	646.2
20°	785.9	773.0	739.0	697.3	661.1	633.3	622.7	619.5	617.4
22.5°	767.7	752.8	714.4	667.5	628.0	601.4	589.6	587.5	585.4
25°	744.2	729.4	685.7	635.5	593.9	567.3	557.6	555.6	554.4
27.5°	714.4	698.5	652.6	601.4	556.6	531.1	522.4	522.4	521.4
30°	676.0	658.0	613.1	561.9	517.1	493.7	487.3	487.3	486.2
32.5°	629.1	611.0	570.5	521.4	478.7	454.2	448.9	451.0	450.0
35°	574.8	559.8	522.4	474.5	437.2	414.8	412.7	414.8	414.8
37.5°	520.4	506.4	474.5	432.9	397.7	377.5	377.5	380.7	379.7
40°	463.9	453.2	423.4	387.0	358.3	344.4	342.3	345.5	346.5
42.5°	410.5	402.0	376.4	346.5	321.0	307.1	310.3	312.5	313.5
45°	362.5	354.0	333.8	302.8	284.7	275.1	275.1	278.3	277.3
47.5°	319.8	313.5	293.3	263.3	247.4	243.1	245.3	247.4	247.4
50°	282.6	273.0	253.8	230.3	218.6	213.3	215.4	216.4	216.4
52.5°	247.4	241.0	221.8	200.4	189.8	186.6	186.6	187.6	187.6
55°	218.6	211.1	194.1	172.7	164.2	159.9	156.7	155.7	157.8
57.5°	190.9	184.4	168.4	148.2	138.6	134.4	127.9	125.9	127.9
60°	166.4	161.1	145.1	125.9	116.2	107.7	100.2	96.0	98.1
62.5°	145.1	138.6	122.6	106.6	96.0	86.4	74.7	68.2	71.4
65°	123.7	118.4	102.4	86.4	75.7	64.0	50.2	45.9	45.9
67.5°	104.5	99.2	84.2	70.4	57.5	43.7	30.9	29.9	30.9
70°	86.4	81.0	68.2	54.4	40.5	26.7	18.2	18.2	18.2
72.5°	71.4	65.0	53.3	39.5	25.5	13.8	9.6	10.7	10.7
75°	55.5	50.2	39.5	26.7	15.0	6.4	5.3	5.3	5.3
77.5°	41.5	37.3	27.7	17.0	7.5	2.2	2.2	2.2	2.2
80°	28.8	24.5	18.2	10.7	4.3	2.2	2.2	2.2	2.2
82.5°	17.0	15.0	10.7	5.3	2.2	1.0	1.0	1.0	1.0
85°	8.5	7.5	4.3	2.2	1.0	1.0	1.0	1.0	1.0
87.5°	2.2	2.2	1.0	1.0	0.0	1.0	1.0	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°







(END OF REPORT)