

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: P581819

Luminaire Tested: **HC615D010-HM60525935-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581819
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC615D010-HM60525935-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1379.0 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

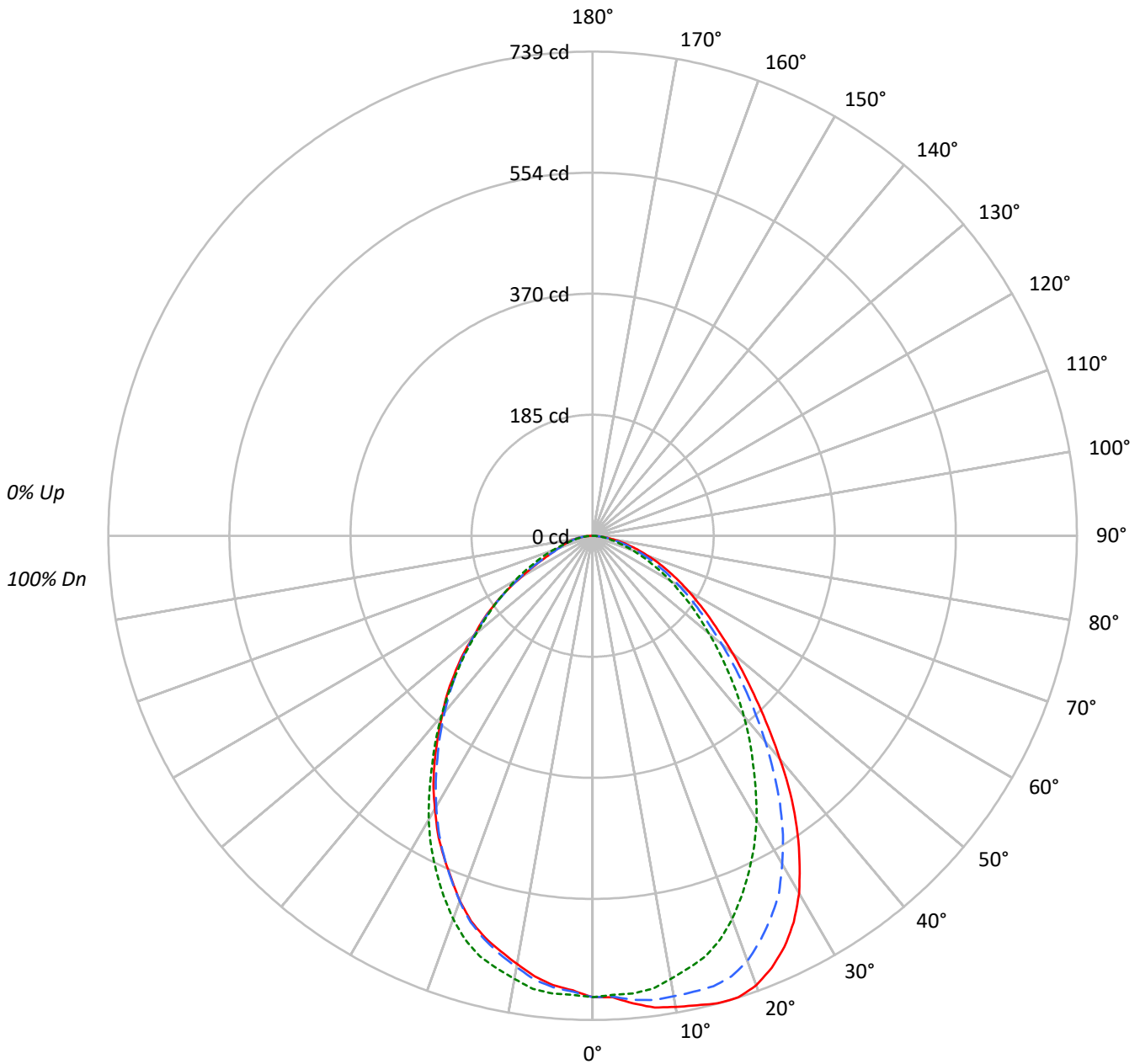
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87																			
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76																			
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66																			
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58																			
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52																			
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46																			
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42																			
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38																			
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34																			
10	58	46	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	38604	38604	38604
5°	39434	38587	37899
10°	40642	38231	36945
15°	41930	37724	36033
20°	42593	36304	34571
25°	41894	34157	32585
30°	39880	31663	30448
35°	36366	28583	28134
40°	31810	25677	25534
45°	27367	22599	23119
50°	23795	19692	20093
55°	20778	17280	17462
60°	18452	14966	13716
65°	16474	12608	10481
70°	14506	10338	8784
75°	12433	8155	8345
80°	10039	6977	8208
85°	6667	6038	7296



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.7	4.8
10°-20°	189.8	13.8
20°-30°	270.9	19.6
30°-40°	283.8	20.6
40°-50°	238.9	17.3
50°-60°	170.1	12.3
60°-70°	99.5	7.2
70°-80°	47.1	3.4
80°-90°	12.1	0.9
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°	527.4	38.2
0°-40°	811.2	58.8
0°-60°	1220.2	88.5
0°-90°	1379.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1379.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	704	704	704	704	704	
5°	717	711	701	692	689	69
15°	739	712	665	638	635	209
25°	693	644	565	538	539	317
35°	543	498	427	413	420	338
45°	353	327	292	292	298	274
55°	217	199	181	181	183	196
65°	127	113	97	82	81	127
75°	59	49	38	38	39	63
85°	11	9	10	12	12	14
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°	704.2	704.2	704.2	704.2	704.2	704.2	704.2	704.2	704.2
2.5°	705.1	705.1	704.2	703.1	701.2	698.4	696.4	694.5	694.5
5°	716.6	714.7	710.9	706.1	701.2	695.5	691.7	688.7	688.7
7.5°	726.3	722.4	714.7	706.1	697.5	689.7	682.9	679.1	678.2
10°	730.1	725.3	713.8	700.3	686.8	676.2	668.5	663.7	663.7
12.5°	734.0	728.2	712.8	693.6	676.2	661.8	654.1	650.2	649.3
15°	738.8	731.1	711.9	687.8	664.7	648.3	637.8	634.9	634.9
17.5°	738.8	729.1	705.1	675.3	646.4	628.1	618.6	615.6	616.6
20°	730.1	719.5	690.6	654.1	622.3	603.1	593.5	591.6	592.6
22.5°	713.8	701.2	668.5	629.1	594.5	574.3	565.6	565.6	564.7
25°	692.6	679.1	643.5	602.1	564.7	544.5	537.8	538.7	538.7
27.5°	664.7	651.3	615.6	571.4	533.9	513.7	508.8	510.8	511.8
30°	630.0	615.6	578.2	534.8	500.2	480.0	477.2	480.0	481.0
32.5°	587.7	577.1	540.6	496.3	463.6	446.3	445.4	448.2	452.1
35°	543.4	532.0	498.3	457.9	427.1	412.7	412.7	417.5	420.4
37.5°	495.4	483.9	453.1	419.4	393.4	380.0	381.9	386.7	387.7
40°	444.5	435.7	409.7	380.9	358.8	348.2	351.1	355.9	356.8
42.5°	396.3	388.6	367.5	341.5	325.2	317.5	321.3	327.1	329.0
45°	353.0	344.4	327.1	305.0	291.5	287.6	292.4	296.2	298.2
47.5°	313.6	305.9	291.5	271.3	261.6	259.7	264.6	266.5	268.4
50°	279.0	271.3	256.9	238.6	230.9	230.9	234.7	236.6	235.6
52.5°	245.3	238.6	225.1	209.7	204.9	204.9	207.8	208.7	210.7
55°	217.4	210.7	199.1	184.7	180.8	178.9	180.8	180.8	182.7
57.5°	191.5	185.7	175.0	161.6	156.7	154.9	153.9	153.0	154.9
60°	168.3	163.6	152.0	140.4	136.5	131.8	127.9	124.1	125.1
62.5°	147.2	142.3	131.8	120.2	116.5	109.6	104.9	100.0	101.9
65°	127.0	122.1	112.6	102.9	97.2	89.4	81.7	78.9	80.8
67.5°	108.7	104.9	95.2	85.6	80.8	72.2	64.5	64.5	65.4
70°	90.5	86.6	78.9	70.3	64.5	56.8	53.9	54.8	54.8
72.5°	74.1	71.2	63.4	55.8	50.1	45.2	45.2	46.2	47.1
75°	58.7	56.8	49.0	42.3	38.5	35.6	37.6	38.5	39.4
77.5°	45.2	42.3	36.5	31.8	28.8	29.9	31.8	32.7	33.7
80°	31.8	30.8	26.0	23.0	22.1	23.0	25.0	26.0	26.0
82.5°	20.2	19.3	16.3	15.4	15.4	16.3	18.3	18.3	18.3
85°	10.6	9.6	8.6	8.6	9.6	10.6	11.6	11.6	11.6
87.5°	3.9	2.8	3.9	3.9	4.8	4.8	4.8	4.8	4.8
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)