

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: P581811

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581811
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: HC615D010-HM60525935-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1438.6 lumens
Efficiency: N/A
Efficacy: 102.8 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

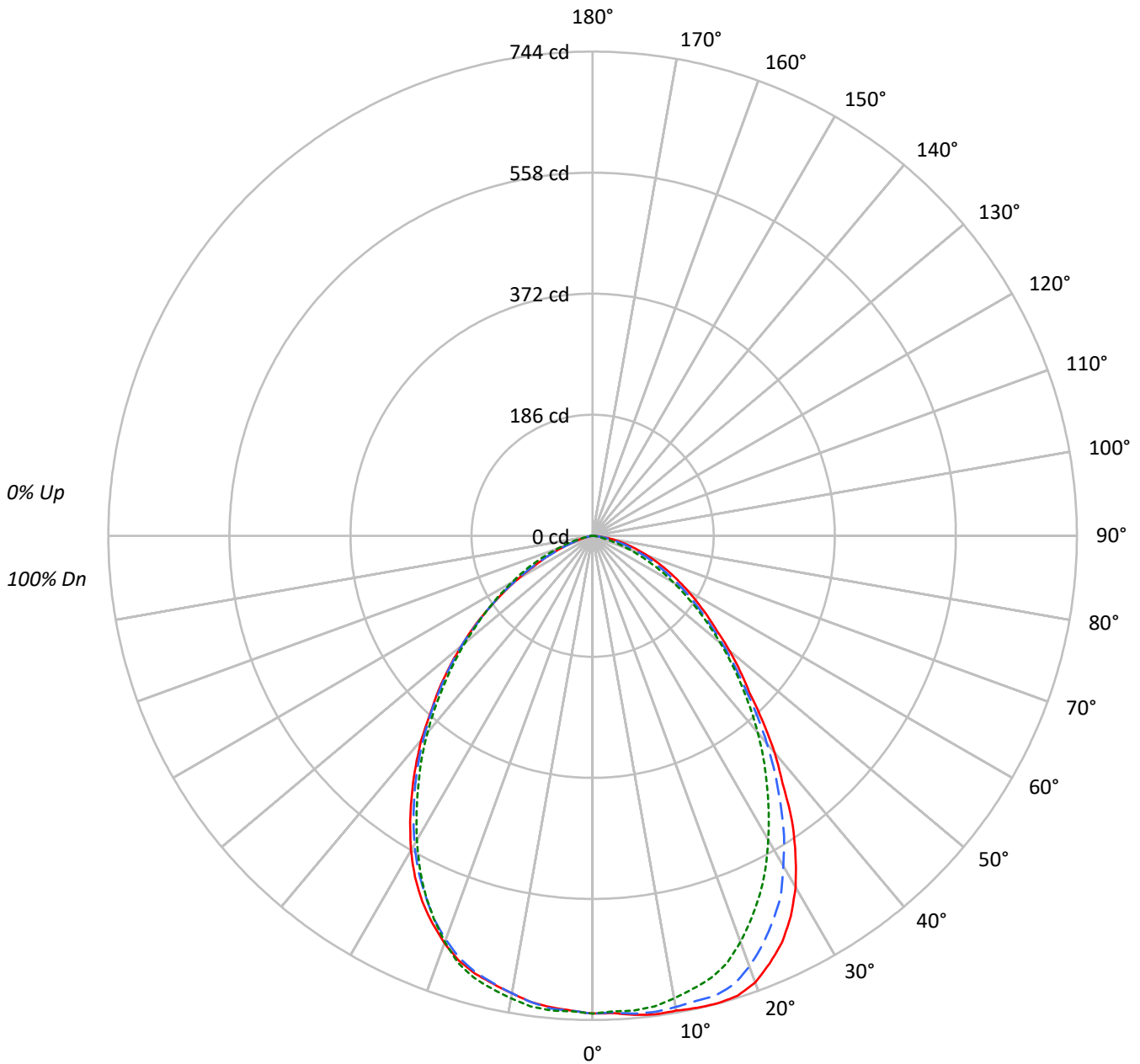
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			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°	40249	40249	40249
5°	40667	40298	40029
10°	41243	40168	39745
15°	42214	39921	39541
20°	42610	38737	38848
25°	41670	36782	37484
30°	39474	34170	35328
35°	35737	31233	32391
40°	31123	28231	29262
45°	26406	24987	25886
50°	23385	21824	22396
55°	20597	18666	18580
60°	18463	15722	14451
65°	16474	12608	10364
70°	14506	9104	6475
75°	12243	5507	3685
80°	9439	2431	1515
85°	5409	566	566



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.7	4.8
10°-20°	200.3	13.9
20°-30°	289.5	20.1
30°-40°	304.7	21.2
40°-50°	256.1	17.8
50°-60°	179.8	12.5
60°-70°	98.9	6.9
70°-80°	35.1	2.4
80°-90°	4.6	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°	559.5	38.9
0°-40°	864.2	60.1
0°-60°	1300.0	90.4
0°-90°	1438.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1438.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	734	734	734	734	734	
5°	739	737	732	729	727	71
15°	744	731	703	695	697	210
25°	689	654	608	609	620	315
35°	534	503	467	476	484	331
45°	341	331	322	330	334	267
55°	216	204	195	195	194	194
65°	127	114	97	80	80	126
75°	58	46	26	17	17	62
85°	9	5	1	1	1	12
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°	734.2	734.2	734.2	734.2	734.2	734.2	734.2	734.2	734.2
2.5°	734.2	734.2	733.2	733.2	731.3	731.3	730.4	730.4	730.4
5°	739.0	739.0	737.1	734.2	732.3	729.4	729.4	728.4	727.4
7.5°	741.8	740.9	738.0	734.2	729.4	724.6	722.7	723.6	722.7
10°	740.9	739.0	735.1	727.4	721.6	714.9	714.0	713.0	714.0
12.5°	742.9	739.9	732.3	722.7	713.0	705.3	704.4	704.4	705.3
15°	743.8	740.9	731.3	716.9	703.4	695.6	694.7	695.6	696.7
17.5°	740.9	737.1	722.7	703.4	688.0	680.3	680.3	682.2	684.2
20°	730.4	724.6	704.4	681.2	664.0	658.2	660.1	664.0	665.9
22.5°	711.1	704.4	681.2	655.2	637.0	632.2	637.0	641.8	643.8
25°	688.9	681.2	654.3	627.4	608.1	602.3	609.0	616.8	619.7
27.5°	659.1	650.5	625.5	594.6	575.4	572.5	580.2	588.8	590.8
30°	623.6	613.9	586.0	557.2	539.8	538.9	547.5	555.2	558.1
32.5°	580.2	571.6	547.5	518.7	503.3	503.3	511.9	518.7	521.5
35°	534.0	524.4	503.3	479.2	466.7	467.6	476.4	481.1	484.0
37.5°	479.2	476.4	459.9	439.7	431.1	433.0	439.7	443.6	446.5
40°	434.9	427.2	416.7	400.3	394.5	396.5	403.2	407.0	408.9
42.5°	386.8	382.0	373.3	361.8	358.0	360.8	366.6	369.4	368.5
45°	340.6	339.7	331.0	324.3	322.3	326.2	330.1	332.9	333.9
47.5°	306.9	303.2	295.4	290.6	288.6	292.5	296.3	298.3	298.3
50°	274.2	270.4	262.6	257.9	255.9	259.8	262.6	264.6	262.6
52.5°	241.5	237.7	231.0	225.2	224.2	226.1	227.1	228.0	230.0
55°	215.5	211.7	204.0	197.3	195.3	196.2	195.3	195.3	194.4
57.5°	190.6	186.7	179.0	171.3	168.4	167.4	164.6	163.6	162.6
60°	168.4	163.6	155.8	147.2	143.4	139.5	134.7	131.8	131.8
62.5°	147.2	142.4	133.7	126.1	120.3	113.5	105.9	102.0	102.0
65°	127.0	123.1	113.5	104.9	97.2	88.5	79.9	78.0	79.9
67.5°	107.8	104.0	94.3	85.7	76.0	65.4	57.8	57.8	59.7
70°	90.5	86.6	78.0	67.3	56.8	46.2	40.4	40.4	40.4
72.5°	74.1	70.3	60.6	51.0	40.4	29.9	26.9	27.9	26.9
75°	57.8	54.8	46.2	35.6	26.0	18.3	17.4	16.3	17.4
77.5°	43.4	40.4	32.7	23.0	14.4	10.6	9.6	9.6	9.6
80°	29.9	26.9	21.2	13.5	7.7	4.8	4.8	4.8	4.8
82.5°	18.3	15.4	11.6	6.7	2.8	2.8	2.8	2.8	2.8
85°	8.6	6.7	4.8	1.9	0.9	0.9	0.9	0.9	0.9
87.5°	1.9	1.9	0.9	0.9	0.0	0.9	0.9	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)