

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: P581720

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581720
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC615D010-HM60525830-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1588.8 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

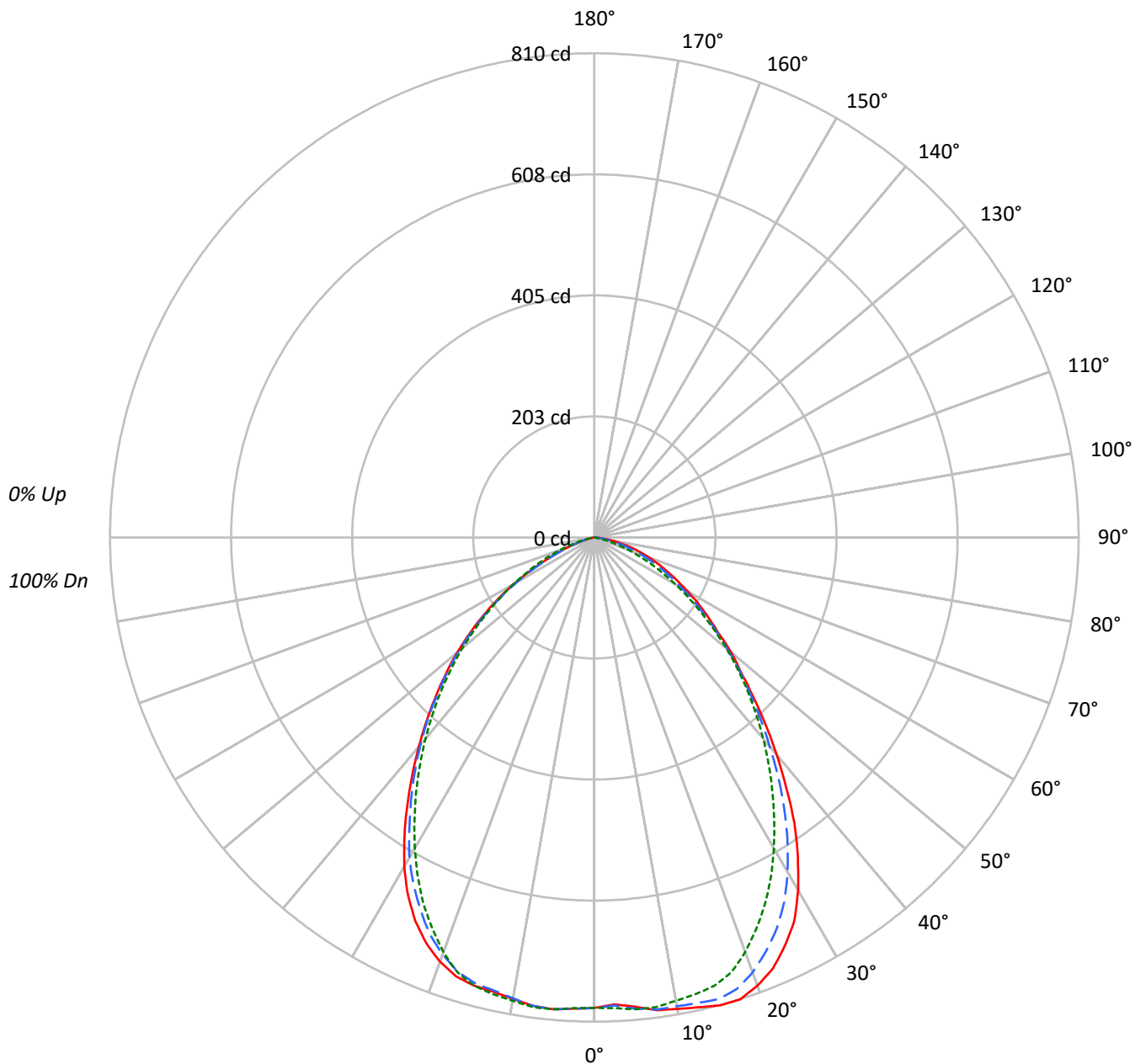
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88		
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77		
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68		
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	60		
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	62	55	50	60	54	49	58	53	49	47		
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	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°	43143	43143	43143
5°	43363	43600	43600
10°	44583	43809	43631
15°	45993	44058	44058
20°	46537	43054	44045
25°	45601	40896	42825
30°	43140	38006	40234
35°	39036	34760	36466
40°	33956	31445	32661
45°	29019	28026	29019
50°	25466	24554	25551
55°	22212	20683	21505
60°	19637	17181	16950
65°	17434	13555	11623
70°	15387	9569	7004
75°	13111	5401	3389
80°	9755	1673	1010
85°	5346	629	629



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.5	4.8
10°-20°	220.9	13.9
20°-30°	322.6	20.3
30°-40°	338.3	21.3
40°-50°	285.0	17.9
50°-60°	199.7	12.6
60°-70°	107.1	6.7
70°-80°	35.9	2.3
80°-90°	3.9	0.2
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°	618.9	39.0
0°-40°	957.2	60.3
0°-60°	1441.9	90.8
0°-90°	1588.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1588.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	787	787	787	787	787	
5°	788	791	792	792	792	76
15°	810	800	776	772	776	229
25°	754	722	676	688	708	345
35°	583	553	519	534	545	362
45°	374	368	362	371	374	292
55°	232	225	216	221	225	209
65°	134	123	104	86	90	134
75°	62	48	26	16	16	66
85°	8	4	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°	787.0	787.0	787.0	787.0	787.0	787.0	787.0	787.0	787.0
2.5°	781.7	781.7	783.8	785.9	788.0	788.0	789.2	790.2	789.2
5°	788.0	788.0	791.2	792.3	792.3	791.2	792.3	792.3	792.3
7.5°	797.7	795.5	796.5	794.4	792.3	791.2	790.2	790.2	790.2
10°	800.9	798.7	796.5	792.3	787.0	783.8	782.7	783.8	783.8
12.5°	805.1	803.0	797.7	789.2	782.7	777.4	776.3	778.5	778.5
15°	810.4	808.3	799.7	785.9	776.3	771.0	772.0	774.2	776.3
17.5°	810.4	806.2	792.3	774.2	762.5	757.2	761.4	766.7	769.9
20°	797.7	793.4	774.2	751.8	738.0	734.7	742.2	751.8	755.0
22.5°	780.5	772.0	749.7	723.0	708.0	708.0	718.7	730.5	734.7
25°	753.9	747.5	722.0	691.0	676.1	675.0	687.8	703.8	708.0
27.5°	724.0	715.5	687.8	655.8	639.8	640.9	654.8	670.8	675.0
30°	681.5	670.8	646.3	615.3	600.4	604.6	618.5	630.3	635.6
32.5°	633.4	623.8	601.4	572.6	559.9	564.1	575.8	586.5	590.8
35°	583.3	572.6	553.4	527.9	519.4	523.6	534.2	542.8	544.9
37.5°	526.8	519.4	505.4	485.2	478.7	484.1	492.7	498.0	500.1
40°	474.5	468.2	456.4	441.5	439.4	443.6	452.2	455.4	456.4
42.5°	423.4	418.0	410.5	399.9	399.9	404.2	411.7	413.7	414.8
45°	374.3	371.1	367.9	359.3	361.5	366.8	371.1	374.3	374.3
47.5°	331.6	332.7	328.5	322.0	324.2	329.5	332.7	336.0	336.0
50°	298.6	295.3	291.1	284.8	287.9	292.1	296.5	298.6	299.6
52.5°	260.1	259.1	255.9	248.5	250.6	252.8	257.0	260.1	261.3
55°	232.4	229.3	225.0	216.4	216.4	218.6	220.8	222.9	225.0
57.5°	205.8	202.6	196.2	186.6	185.6	185.6	184.4	186.6	189.8
60°	179.1	178.1	168.4	159.9	156.7	153.6	149.3	150.4	154.6
62.5°	155.7	153.6	145.1	134.4	127.9	122.6	117.2	116.2	120.5
65°	134.4	132.2	122.6	112.0	104.5	94.9	86.4	86.4	89.6
67.5°	115.2	110.9	102.4	90.7	81.0	69.3	60.8	62.9	64.0
70°	96.0	92.7	83.2	71.4	59.7	48.0	42.7	43.7	43.7
72.5°	78.9	74.7	65.0	53.3	41.5	30.9	28.8	27.7	27.7
75°	61.9	57.5	48.0	36.2	25.5	18.2	16.0	16.0	16.0
77.5°	44.8	41.5	33.0	22.4	13.8	8.5	7.5	6.4	6.4
80°	30.9	27.7	20.3	11.7	5.3	3.2	3.2	3.2	3.2
82.5°	18.2	15.0	9.6	5.3	2.2	1.0	1.0	1.0	1.0
85°	8.5	6.4	4.3	2.2	1.0	1.0	1.0	1.0	1.0
87.5°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	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)