

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: P581837

Luminaire Tested: **HC615D010-HM60525940-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581837
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-HM60525940-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1396.2 lumens
Efficiency: N/A
Efficacy: 99.7 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

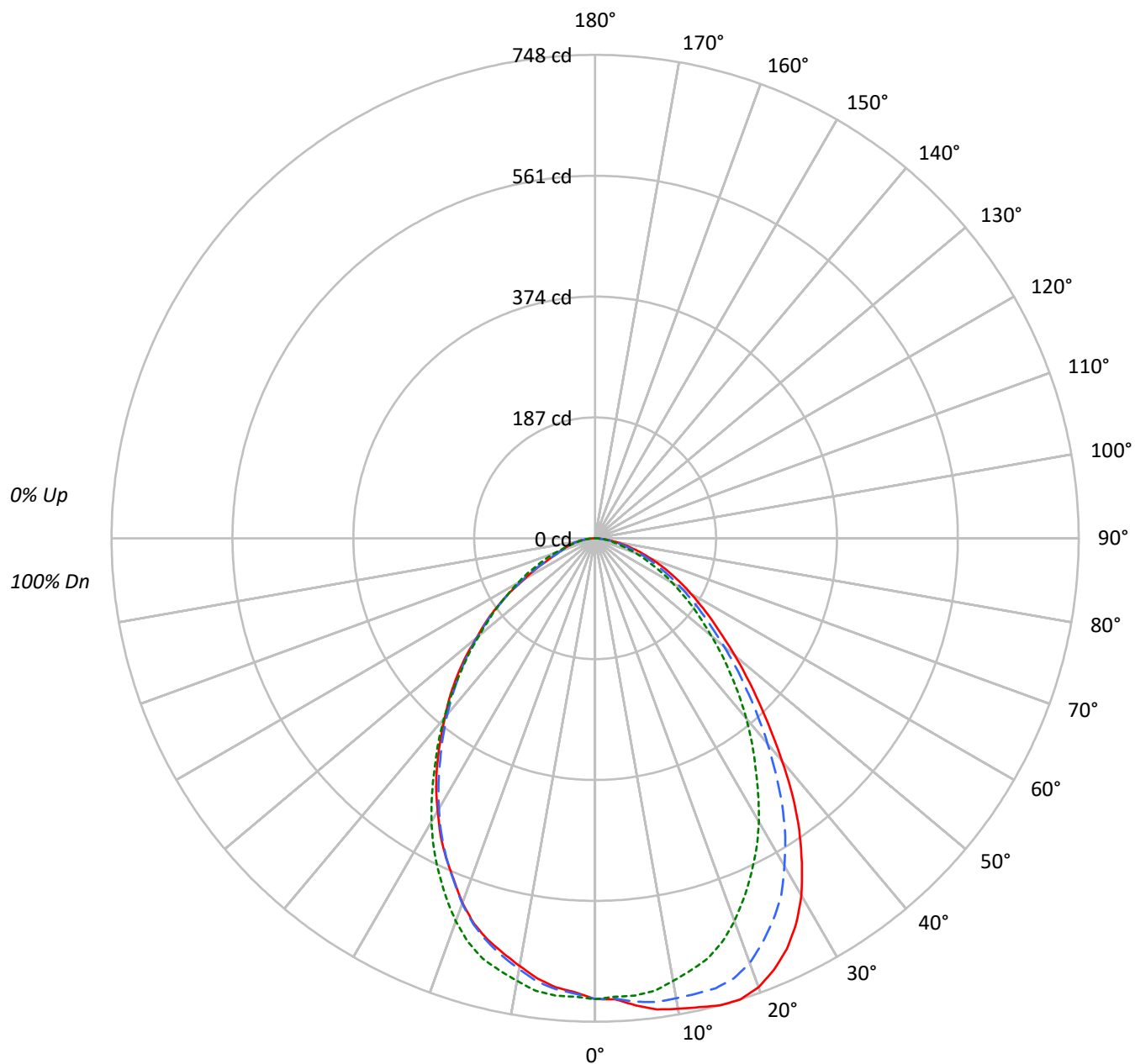
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	39087	39087	39087
5°	39929	39077	38372
10°	41148	38710	37407
15°	42452	38201	36487
20°	43124	36765	35003
25°	42420	34581	32996
30°	40386	32056	30828
35°	36821	28938	28482
40°	32203	25999	25863
45°	27708	22878	23406
50°	24093	19940	20349
55°	21036	17500	17682
60°	18694	15174	13891
65°	16681	12764	10611
70°	14682	10467	8896
75°	12581	8239	8472
80°	10134	7072	8303
85°	6730	6164	7359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.5	4.8
10°-20°	192.2	13.8
20°-30°	274.3	19.6
30°-40°	287.3	20.6
40°-50°	241.9	17.3
50°-60°	172.2	12.3
60°-70°	100.8	7.2
70°-80°	47.7	3.4
80°-90°	12.3	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°	534.0	38.2
0°-40°	821.3	58.8
0°-60°	1235.5	88.5
0°-90°	1396.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1396.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	713	713	713	713	713	
5°	726	720	710	700	697	70
15°	748	721	673	646	643	211
25°	701	652	572	544	546	321
35°	550	504	432	418	426	342
45°	357	331	295	296	302	278
55°	220	202	183	183	185	198
65°	129	114	98	83	82	128
75°	59	50	39	38	40	64
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°	713.0	713.0	713.0	713.0	713.0	713.0	713.0	713.0	713.0
2.5°	713.9	713.9	713.0	712.0	710.1	707.1	705.2	703.2	703.2
5°	725.6	723.7	719.8	714.9	710.1	704.2	700.3	697.3	697.3
7.5°	735.4	731.5	723.7	714.9	706.1	698.4	691.6	687.6	686.7
10°	739.2	734.3	722.7	709.0	695.4	684.7	676.9	672.0	672.0
12.5°	743.2	737.3	721.7	702.2	684.7	670.1	662.3	658.4	657.4
15°	748.0	740.2	720.7	696.4	673.1	656.5	645.7	642.9	642.9
17.5°	748.0	738.3	713.9	683.7	654.6	636.1	626.3	623.3	624.4
20°	739.2	728.6	699.3	662.3	630.2	610.7	601.0	599.1	600.0
22.5°	722.7	710.1	676.9	637.0	601.9	581.5	572.7	572.7	571.7
25°	701.3	687.6	651.6	609.7	571.7	551.3	544.5	545.5	545.5
27.5°	673.1	659.4	623.3	578.5	540.6	520.1	515.3	517.2	518.1
30°	638.0	623.3	585.3	541.5	506.4	486.0	483.1	486.0	487.0
32.5°	595.1	584.4	547.4	502.6	469.4	452.0	450.9	453.9	457.7
35°	550.2	538.6	504.5	463.6	432.4	417.8	417.8	422.7	425.6
37.5°	501.6	489.9	458.8	424.6	398.4	384.8	386.7	391.6	392.5
40°	450.0	441.2	415.0	385.7	363.3	352.5	355.5	360.4	361.4
42.5°	401.3	393.5	372.1	345.7	329.2	321.4	325.3	331.2	333.1
45°	357.4	348.7	331.2	308.7	295.1	291.2	296.1	300.0	301.9
47.5°	317.6	309.7	295.1	274.7	264.9	263.0	267.9	269.8	271.7
50°	282.5	274.7	260.0	241.5	233.8	233.8	237.7	239.6	238.6
52.5°	248.3	241.5	227.9	212.4	207.5	207.5	210.4	211.3	213.3
55°	220.1	213.3	201.6	187.0	183.1	181.1	183.1	183.1	185.0
57.5°	193.9	188.0	177.3	163.7	158.8	156.9	155.8	154.8	156.9
60°	170.5	165.6	153.9	142.2	138.4	133.5	129.5	125.6	126.7
62.5°	149.0	144.1	133.5	121.8	117.8	111.0	106.1	101.2	103.3
65°	128.6	123.7	114.0	104.2	98.4	90.6	82.7	79.9	81.8
67.5°	110.1	106.1	96.5	86.7	81.8	73.1	65.3	65.3	66.3
70°	91.6	87.6	79.9	71.1	65.3	57.4	54.6	55.5	55.5
72.5°	75.0	72.1	64.2	56.5	50.6	45.7	45.7	46.8	47.7
75°	59.4	57.4	49.7	42.9	38.9	36.1	38.0	38.9	40.0
77.5°	45.7	42.9	37.0	32.1	29.2	30.2	32.1	33.1	34.0
80°	32.1	31.2	26.3	23.4	22.4	23.4	25.3	26.3	26.3
82.5°	20.4	19.5	16.6	15.5	15.5	16.6	18.5	18.5	18.5
85°	10.7	9.8	8.7	8.7	9.8	10.7	11.7	11.7	11.7
87.5°	3.9	3.0	3.9	3.9	4.9	4.9	4.9	4.9	4.9
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)