

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: P581756

Luminaire Tested: **HC615D010-HM60525840-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581756
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-HM60525840-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1666.3 lumens
Efficiency: N/A
Efficacy: 119.0 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

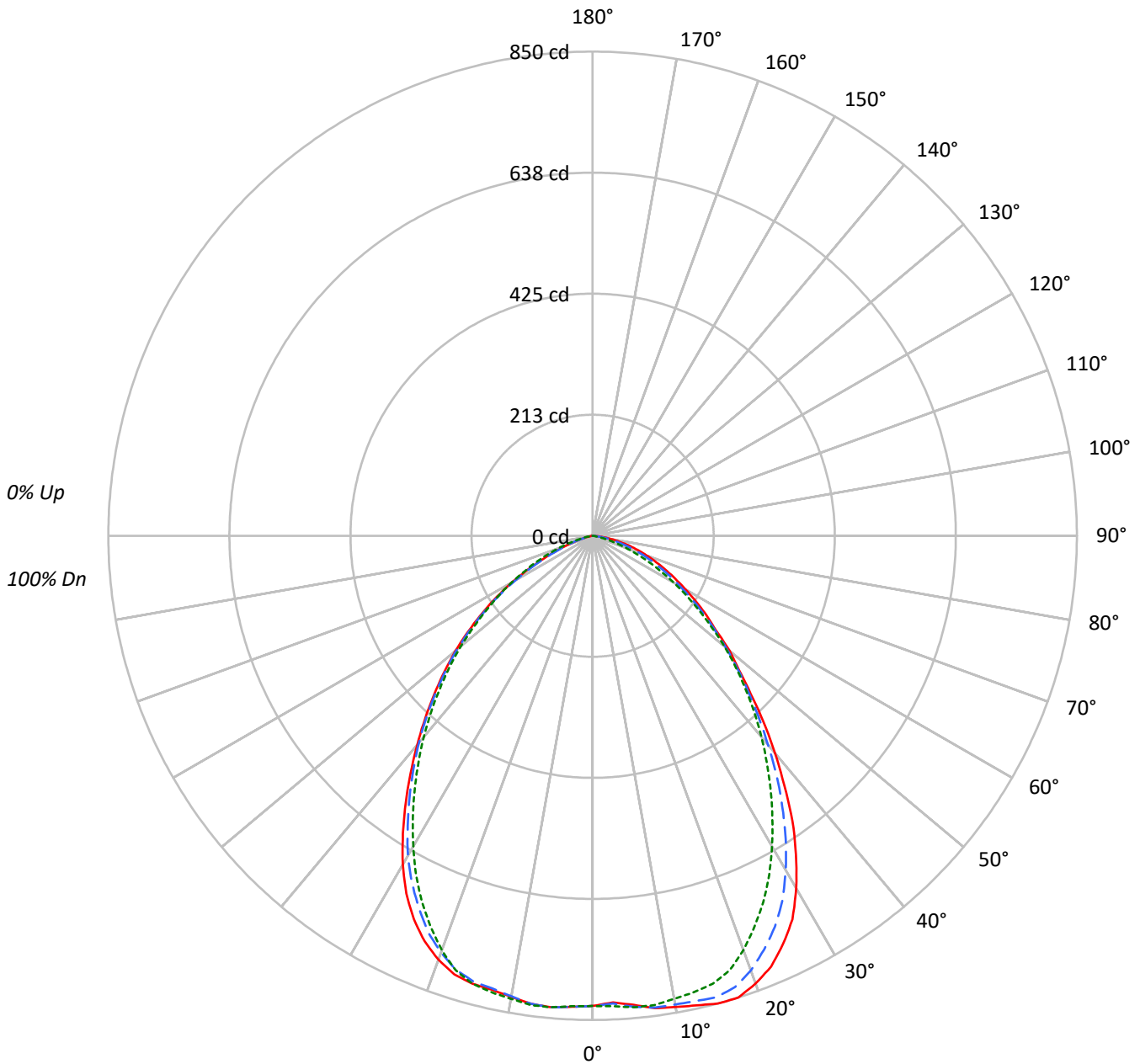
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	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	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	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°	45249	45249	45249
5°	45482	45724	45724
10°	46754	45947	45757
15°	48241	46203	46203
20°	48800	45154	46192
25°	47833	42886	44918
30°	45235	39861	42196
35°	40944	36453	38247
40°	35617	32976	34250
45°	30437	29391	30437
50°	26703	25748	26805
55°	23301	21696	22556
60°	20590	18014	17784
65°	18290	14217	12193
70°	16141	10050	7357
75°	13746	5676	3558
80°	10260	1768	1073
85°	5661	692	692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.2	4.8
10°-20°	231.6	13.9
20°-30°	338.3	20.3
30°-40°	354.8	21.3
40°-50°	298.9	17.9
50°-60°	209.4	12.6
60°-70°	112.3	6.7
70°-80°	37.7	2.3
80°-90°	4.1	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°	649.1	39.0
0°-40°	1003.9	60.2
0°-60°	1512.3	90.8
0°-90°	1666.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1666.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	825	825	825	825	825	
5°	826	830	831	831	831	79
15°	850	839	814	810	814	240
25°	791	757	709	721	743	362
35°	612	580	545	560	572	380
45°	393	386	379	389	393	306
55°	244	236	227	232	236	219
65°	141	129	110	91	94	141
75°	65	50	27	17	17	69
85°	9	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°	825.4	825.4	825.4	825.4	825.4	825.4	825.4	825.4	825.4
2.5°	819.8	819.8	822.0	824.2	826.5	826.5	827.6	828.8	827.6
5°	826.5	826.5	829.8	830.9	830.9	829.8	830.9	830.9	830.9
7.5°	836.5	834.3	835.5	833.2	830.9	829.8	828.8	828.8	828.8
10°	839.9	837.6	835.5	830.9	825.4	822.0	820.9	822.0	822.0
12.5°	844.3	842.2	836.5	827.6	820.9	815.3	814.1	816.4	816.4
15°	850.0	847.7	838.8	824.2	814.1	808.6	809.7	812.0	814.1
17.5°	850.0	845.5	830.9	812.0	799.6	794.0	798.5	804.1	807.4
20°	836.5	832.1	812.0	788.5	774.0	770.6	778.4	788.5	791.8
22.5°	818.7	809.7	786.2	758.3	742.6	742.6	753.8	766.1	770.6
25°	790.8	783.9	757.2	724.7	709.0	707.9	721.4	738.1	742.6
27.5°	759.4	750.5	721.4	687.8	671.0	672.1	686.7	703.5	707.9
30°	714.6	703.5	677.7	645.4	629.7	634.1	648.7	660.9	666.6
32.5°	664.3	654.2	630.7	600.5	587.1	591.7	603.9	615.1	619.6
35°	611.8	600.5	580.4	553.7	544.7	549.1	560.3	569.2	571.5
37.5°	552.5	544.7	530.2	508.8	502.1	507.8	516.7	522.3	524.5
40°	497.7	491.0	478.6	463.0	460.8	465.2	474.2	477.5	478.6
42.5°	444.0	438.5	430.6	419.4	419.4	423.9	431.6	433.9	435.0
45°	392.6	389.2	385.8	376.9	379.1	384.8	389.2	392.6	392.6
47.5°	347.8	348.9	344.5	337.8	339.9	345.6	348.9	352.3	352.3
50°	313.1	309.7	305.3	298.6	301.9	306.4	310.9	313.1	314.3
52.5°	272.9	271.7	268.4	260.6	262.9	265.0	269.6	272.9	274.0
55°	243.8	240.5	236.0	227.0	227.0	229.3	231.5	233.7	236.0
57.5°	215.9	212.5	205.8	195.7	194.7	194.7	193.5	195.7	199.1
60°	187.8	186.8	176.7	167.8	164.3	161.1	156.6	157.7	162.2
62.5°	163.3	161.1	152.1	141.0	134.2	128.6	123.0	121.9	126.3
65°	141.0	138.7	128.6	117.5	109.6	99.5	90.6	90.6	94.0
67.5°	120.8	116.3	107.4	95.1	85.0	72.6	63.8	65.9	67.1
70°	100.7	97.3	87.3	74.9	62.7	50.3	44.7	45.9	45.9
72.5°	82.7	78.3	68.2	56.0	43.6	32.5	30.2	29.1	29.1
75°	64.9	60.4	50.3	38.0	26.8	19.1	16.8	16.8	16.8
77.5°	47.0	43.6	34.6	23.5	14.5	9.0	7.8	6.7	6.7
80°	32.5	29.1	21.2	12.3	5.6	3.4	3.4	3.4	3.4
82.5°	19.1	15.7	10.1	5.6	2.3	1.1	1.1	1.1	1.1
85°	9.0	6.7	4.4	2.3	1.1	1.1	1.1	1.1	1.1
87.5°	1.1	1.1	1.1	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)