

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: P581800

Luminaire Tested: **HC615D010-HM60525930-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581800
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC615D010-HM60525930-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1265.1 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

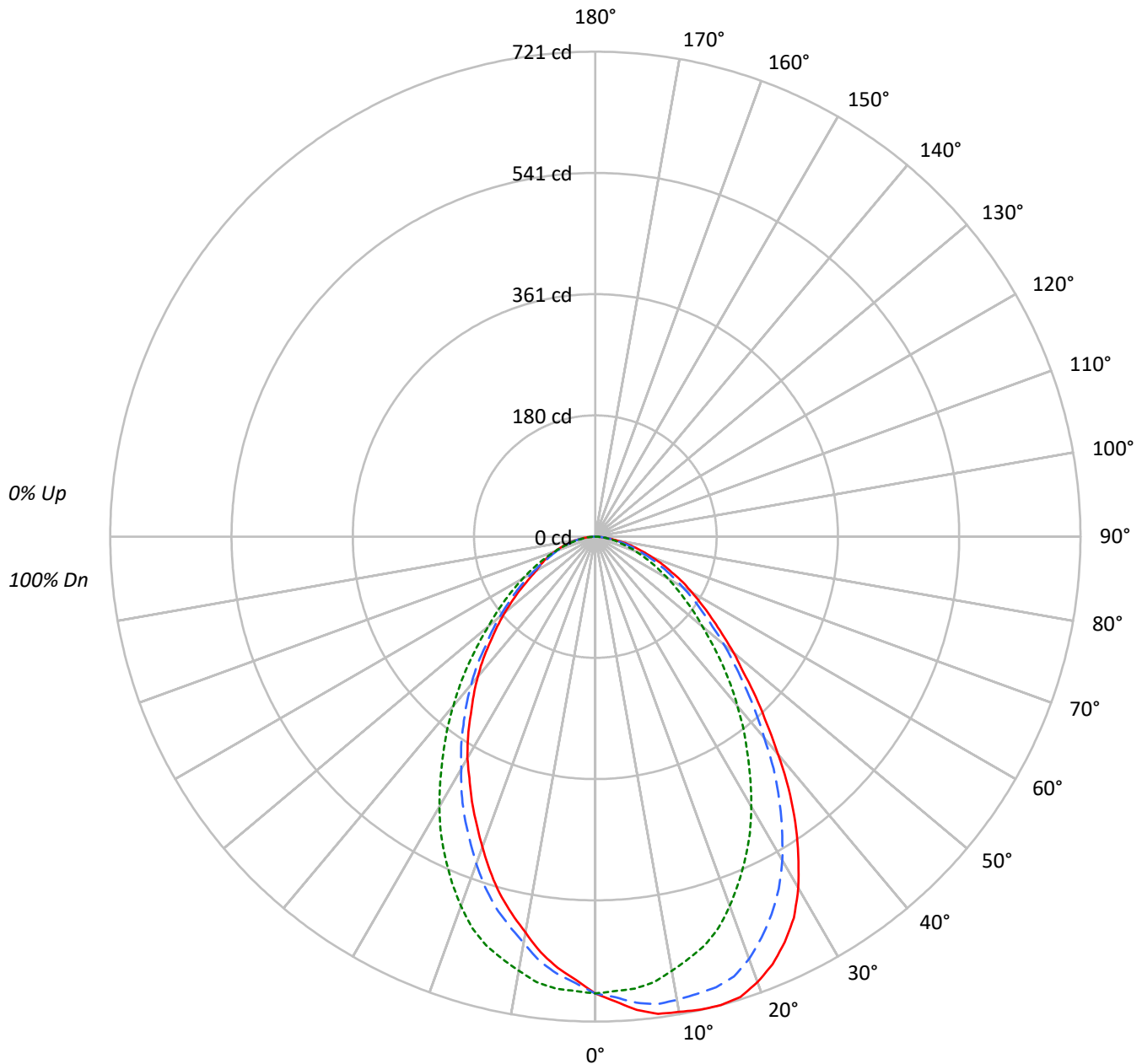
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87		
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76		
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66		
4	87	76	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58		
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51		
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	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	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	37234	37234	37234
5°	38878	37117	35412
10°	39940	36478	33277
15°	40931	35693	31175
20°	41111	34075	28638
25°	40254	31901	26258
30°	38189	29334	24067
35°	34680	26368	21596
40°	30221	23480	19429
45°	26150	20545	17079
50°	22848	17697	14968
55°	20176	15541	12845
60°	18145	13628	11128
65°	16240	11856	10792
70°	14506	10114	10114
75°	12581	8515	9489
80°	10102	7198	8682
85°	6919	6353	7485



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.8	5.0
10°-20°	177.4	14.0
20°-30°	247.3	19.5
30°-40°	254.8	20.1
40°-50°	211.1	16.7
50°-60°	151.7	12.0
60°-70°	96.6	7.6
70°-80°	49.6	3.9
80°-90°	12.6	1.0
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°	488.5	38.6
0°-40°	743.3	58.8
0°-60°	1106.2	87.4
0°-90°	1265.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1265.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	679	679	679	679	679	
5°	706	696	674	653	644	68
15°	721	694	629	571	549	203
25°	666	620	527	460	434	305
35°	518	476	394	342	323	322
45°	337	314	265	231	220	261
55°	211	194	163	144	134	190
65°	125	112	91	80	83	125
75°	59	51	40	42	45	63
85°	11	10	10	11	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°	679.2	679.2	679.2	679.2	679.2	679.2	679.2	679.2	679.2
2.5°	691.9	689.2	685.5	681.9	676.3	670.0	664.5	662.7	659.9
5°	706.5	702.9	695.6	686.4	674.5	662.7	652.6	646.3	643.5
7.5°	715.7	711.1	701.1	685.5	668.2	650.8	636.2	627.1	623.3
10°	717.5	713.0	699.3	678.3	655.3	631.6	613.4	602.3	597.8
12.5°	720.3	713.9	696.5	671.8	642.5	615.2	592.4	578.6	574.0
15°	721.2	713.9	693.7	663.6	628.9	596.0	571.2	554.8	549.3
17.5°	717.5	709.3	685.5	649.0	609.7	575.0	545.7	528.3	521.0
20°	704.7	695.6	668.2	627.1	584.1	547.5	517.3	499.1	490.9
22.5°	688.3	676.3	645.4	601.4	556.6	518.2	488.0	469.8	461.6
25°	665.5	654.4	619.7	573.1	527.4	487.1	459.8	440.6	434.1
27.5°	638.9	626.2	590.4	543.9	497.2	457.1	430.5	413.1	405.0
30°	603.3	591.3	555.7	509.2	463.4	426.0	398.5	383.9	380.2
32.5°	561.3	551.2	516.4	472.6	428.7	394.0	371.1	355.6	352.0
35°	518.2	506.4	476.2	435.0	394.0	362.9	341.9	328.1	322.7
37.5°	471.6	460.7	435.0	398.5	362.0	332.7	314.4	302.6	297.0
40°	422.3	414.0	390.3	361.0	328.1	302.6	287.0	276.9	271.5
42.5°	376.6	368.3	352.0	324.5	297.0	274.2	260.5	251.4	246.7
45°	337.3	329.9	313.5	289.8	265.0	245.8	231.2	224.8	220.3
47.5°	297.9	294.3	279.7	257.8	234.9	218.5	208.4	201.1	197.5
50°	267.9	263.2	249.6	226.7	207.5	194.7	185.6	179.1	175.5
52.5°	236.8	232.2	219.4	200.2	184.7	172.7	163.7	158.1	154.5
55°	211.1	207.5	193.7	176.4	162.6	152.7	144.4	138.0	134.4
57.5°	187.4	183.8	170.9	154.5	142.6	133.5	126.1	120.7	116.1
60°	165.5	162.6	149.9	134.4	124.3	115.2	108.7	104.2	101.5
62.5°	146.3	140.7	129.8	116.1	106.9	99.7	93.2	90.5	92.3
65°	125.2	122.5	111.6	99.7	91.4	84.1	79.6	81.4	83.2
67.5°	107.8	104.2	95.1	84.1	76.7	71.3	68.6	72.2	73.1
70°	90.5	86.8	78.7	69.5	63.1	59.4	59.4	62.2	63.1
72.5°	74.0	71.3	64.0	56.6	52.1	49.4	51.2	53.0	53.9
75°	59.4	56.6	51.2	44.8	40.2	40.2	42.0	43.9	44.8
77.5°	45.7	43.9	38.4	33.8	32.0	32.0	33.8	34.7	35.6
80°	32.0	30.2	27.5	24.6	22.8	24.6	26.6	26.6	27.5
82.5°	21.0	20.1	18.3	16.5	16.5	17.4	18.3	19.2	19.2
85°	11.0	11.0	10.1	9.2	10.1	11.0	11.0	11.9	11.9
87.5°	3.6	3.6	3.6	3.6	4.5	4.5	4.5	4.5	4.5
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)