

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: P581835

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581835
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC615D010-HM60525940-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1234.5 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

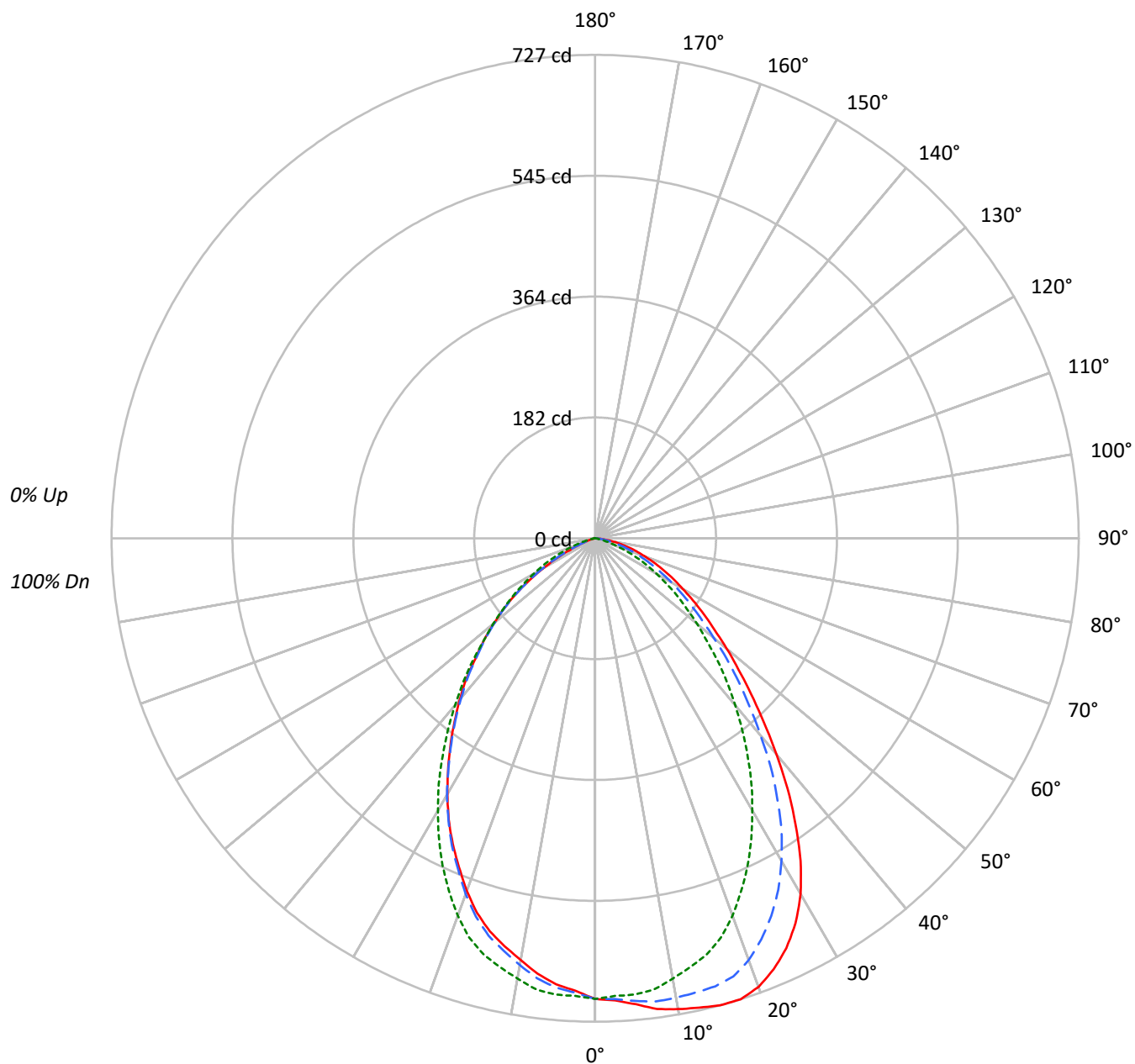
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89		
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78		
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69		
4	89	79	71	66	87	78	71	65	75	69	64	73	68	64	71	66	63	61		
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54		
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	49		
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44		
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40		
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37		
10	60	48	40	36	58	47	40	36	46	40	36	45	40	35	45	39	35	34		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	37974	37974	37974
5°	38713	37904	37051
10°	40024	37424	35849
15°	41254	36777	34728
20°	41893	35236	32909
25°	41137	32820	30649
30°	39101	29910	28118
35°	35148	26736	25364
40°	30328	23422	22664
45°	25685	20165	19638
50°	22021	17040	16869
55°	19096	14336	13773
60°	16665	11644	9835
65°	14658	8963	5435
70°	12646	5930	2661
75°	10718	2881	1038
80°	8303	1231	600
85°	4906	629	629



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.4	5.3
10°-20°	184.9	15.0
20°-30°	260.3	21.1
30°-40°	266.0	21.5
40°-50°	214.5	17.4
50°-60°	143.8	11.7
60°-70°	72.8	5.9
70°-80°	23.3	1.9
80°-90°	3.6	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°	510.6	41.4
0°-40°	776.6	62.9
0°-60°	1134.9	91.9
0°-90°	1234.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1234.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	693	693	693	693	693	
5°	704	699	689	678	673	68
15°	727	698	648	619	612	205
25°	680	626	543	510	507	311
35°	525	477	400	377	379	327
45°	331	305	260	251	253	258
55°	200	177	150	143	144	180
65°	113	94	69	46	42	113
75°	51	36	14	5	5	54
85°	8	4	1	1	1	10
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°	692.7	692.7	692.7	692.7	692.7	692.7	692.7	692.7	692.7
2.5°	695.6	694.7	693.7	691.8	688.8	685.9	684.0	682.0	681.0
5°	703.5	701.5	698.6	694.7	688.8	682.0	678.2	674.2	673.3
7.5°	714.1	710.3	702.5	693.7	684.0	674.2	667.4	663.5	660.6
10°	719.0	712.2	701.5	686.9	672.3	660.6	651.8	645.9	644.0
12.5°	723.0	715.2	699.6	680.1	660.6	645.0	635.3	630.4	628.4
15°	726.9	719.0	697.6	672.3	648.0	629.4	618.7	613.8	611.9
17.5°	726.9	716.1	690.8	658.6	629.4	607.0	596.3	591.4	590.4
20°	718.1	706.4	675.2	637.2	604.0	578.7	569.0	566.0	564.1
22.5°	701.5	687.9	652.7	609.9	573.9	549.6	538.8	536.9	534.9
25°	680.1	666.5	626.5	580.7	542.6	518.4	509.6	507.6	506.7
27.5°	652.7	638.2	596.3	549.6	508.6	485.2	477.4	477.4	476.5
30°	617.7	601.2	560.2	513.5	472.5	451.2	445.3	445.3	444.2
32.5°	574.9	558.3	521.3	476.5	437.4	415.1	410.2	412.1	411.2
35°	525.2	511.5	477.4	433.6	399.5	379.0	377.0	379.0	379.0
37.5°	475.5	462.9	433.6	395.5	363.4	344.9	344.9	347.9	346.9
40°	423.8	414.0	386.8	353.7	327.3	314.7	312.8	315.6	316.7
42.5°	375.1	367.3	343.9	316.7	293.3	280.6	283.5	285.5	286.5
45°	331.3	323.5	305.0	276.7	260.1	251.4	251.4	254.4	253.3
47.5°	292.3	286.5	268.0	240.6	226.1	222.1	224.0	226.1	226.1
50°	258.2	249.5	231.9	210.4	199.8	194.9	196.8	197.8	197.8
52.5°	226.1	220.2	202.7	183.2	173.4	170.5	170.5	171.5	171.5
55°	199.8	193.0	177.3	157.9	150.0	146.2	143.2	142.2	144.1
57.5°	174.4	168.5	153.9	135.4	126.7	122.8	116.9	115.0	116.9
60°	152.0	147.1	132.5	115.0	106.2	98.4	91.6	87.7	89.7
62.5°	132.5	126.7	112.0	97.4	87.7	78.9	68.2	62.3	65.3
65°	113.0	108.2	93.5	78.9	69.1	58.5	45.7	41.9	41.9
67.5°	95.5	90.6	77.0	64.4	52.7	40.0	28.3	27.2	28.3
70°	78.9	74.0	62.3	49.7	37.0	24.4	16.6	16.6	16.6
72.5°	65.3	59.5	48.7	36.1	23.4	12.7	8.7	9.8	9.8
75°	50.6	45.7	36.1	24.4	13.6	5.9	4.9	4.9	4.9
77.5°	38.0	34.0	25.3	15.5	6.8	1.9	1.9	1.9	1.9
80°	26.3	22.4	16.6	9.8	3.9	1.9	1.9	1.9	1.9
82.5°	15.5	13.6	9.8	4.9	1.9	1.0	1.0	1.0	1.0
85°	7.8	6.8	3.9	1.9	1.0	1.0	1.0	1.0	1.0
87.5°	1.9	1.9	1.0	1.0	0.0	1.0	1.0	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)