

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: P581746

Luminaire Tested: **HC615D010-HM60525835-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581746
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-HM60525835-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1499.5 lumens
Efficiency: N/A
Efficacy: 107.1 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

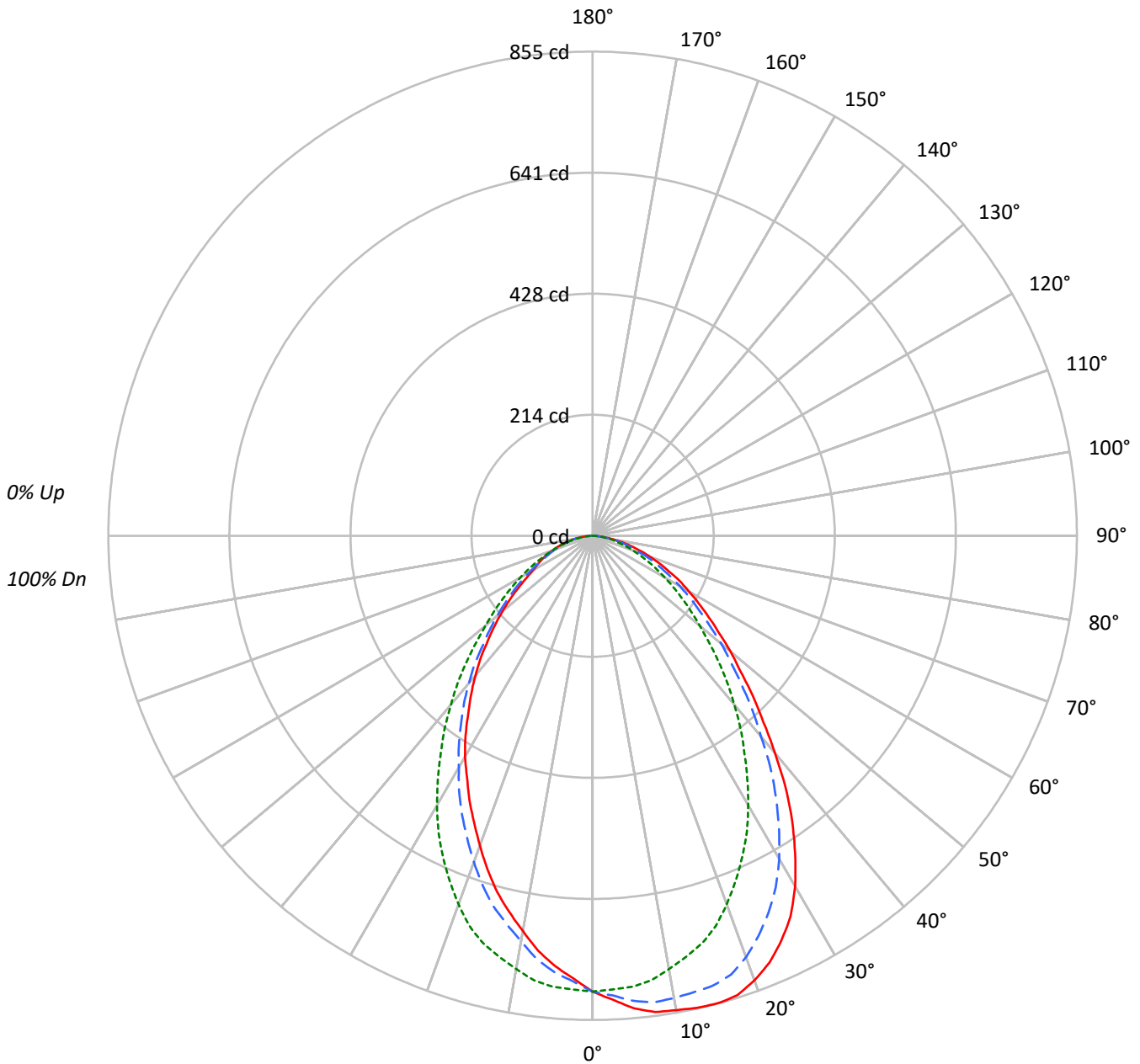
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	44125	44125	44125
5°	46087	44002	41971
10°	47344	43241	39445
15°	48513	42304	36953
20°	48736	40394	33941
25°	47706	37817	31127
30°	45260	34771	28530
35°	41111	31246	25598
40°	35817	27838	23029
45°	30988	24359	20235
50°	27078	20980	17739
55°	23923	18427	15216
60°	21500	16150	13190
65°	19263	14061	12790
70°	17198	11989	11989
75°	14911	10103	11247
80°	11965	8555	10260
85°	8240	7485	8869



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.7	5.0
10°-20°	210.3	14.0
20°-30°	293.1	19.5
30°-40°	302.0	20.1
40°-50°	250.3	16.7
50°-60°	179.9	12.0
60°-70°	114.5	7.6
70°-80°	58.8	3.9
80°-90°	15.0	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°	579.1	38.6
0°-40°	881.0	58.8
0°-60°	1311.2	87.4
0°-90°	1499.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1499.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	805	805	805	805	805	
5°	838	824	800	774	763	80
15°	855	822	745	677	651	241
25°	789	735	625	545	515	361
35°	614	564	467	405	382	382
45°	400	372	314	274	261	309
55°	250	230	193	171	159	225
65°	148	132	108	94	99	149
75°	70	61	48	50	53	75
85°	13	12	12	13	14	17
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°	804.9	804.9	804.9	804.9	804.9	804.9	804.9	804.9	804.9
2.5°	820.2	816.9	812.5	808.2	801.8	794.2	787.7	785.4	782.2
5°	837.5	833.1	824.5	813.7	799.6	785.4	773.5	766.0	762.7
7.5°	848.3	842.9	830.9	812.5	792.0	771.3	754.1	743.2	738.9
10°	850.5	845.0	828.8	803.9	776.8	748.6	727.0	713.9	708.6
12.5°	853.7	846.1	825.6	796.3	761.6	729.1	702.0	685.8	680.4
15°	854.8	846.1	822.3	786.6	745.4	706.4	677.1	657.6	651.1
17.5°	850.5	840.7	812.5	769.2	722.7	681.5	646.8	626.2	617.6
20°	835.4	824.5	792.0	743.2	692.4	649.0	613.2	591.6	581.8
22.5°	815.8	801.8	764.9	712.9	659.8	614.3	578.5	556.8	547.1
25°	788.7	775.8	734.6	679.3	625.2	577.5	544.9	522.2	514.6
27.5°	757.3	742.2	699.8	644.7	589.4	541.7	510.3	489.8	480.0
30°	715.0	701.0	658.8	603.5	549.3	504.8	472.4	455.0	450.7
32.5°	665.2	653.3	612.1	560.1	508.1	466.9	439.8	421.4	417.1
35°	614.3	600.2	564.4	515.7	466.9	430.2	405.2	389.0	382.5
37.5°	559.0	546.0	515.7	472.4	429.0	394.4	372.7	358.7	352.1
40°	500.5	490.8	462.6	427.9	389.0	358.7	340.2	328.2	321.8
42.5°	446.4	436.6	417.1	384.7	352.1	325.1	308.7	297.9	292.5
45°	399.7	391.1	371.6	343.5	314.2	291.5	274.1	266.5	261.0
47.5°	353.2	348.9	331.5	305.5	278.4	258.9	247.0	238.4	234.0
50°	317.5	312.0	295.8	268.7	246.0	230.7	220.0	212.4	208.0
52.5°	280.6	275.2	260.0	237.2	218.8	204.8	194.0	187.4	183.1
55°	250.3	246.0	229.7	209.1	192.8	180.9	171.2	163.6	159.2
57.5°	222.1	217.8	202.6	183.1	169.0	158.2	149.5	143.0	137.6
60°	196.1	192.8	177.6	159.2	147.3	136.5	128.9	123.5	120.3
62.5°	173.3	166.8	153.8	137.6	126.8	118.0	110.5	107.3	109.4
65°	148.5	145.2	132.2	118.0	108.4	99.7	94.2	96.5	98.6
67.5°	127.8	123.5	112.7	99.7	91.0	84.6	81.3	85.6	86.7
70°	107.3	102.9	93.2	82.3	74.8	70.4	70.4	73.7	74.8
72.5°	87.7	84.6	75.8	67.2	61.7	58.5	60.7	62.9	63.9
75°	70.4	67.2	60.7	53.1	47.7	47.7	49.8	52.0	53.1
77.5°	54.1	52.0	45.5	40.1	37.9	37.9	40.1	41.2	42.2
80°	37.9	35.8	32.5	29.3	27.1	29.3	31.4	31.4	32.5
82.5°	25.0	23.8	21.7	19.5	19.5	20.5	21.7	22.7	22.7
85°	13.1	13.1	11.9	10.8	11.9	13.1	13.1	14.1	14.1
87.5°	4.3	4.3	4.3	4.3	5.4	5.4	5.4	5.4	5.4
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)