

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: P581747

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581747
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-HM60525835-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1552.5 lumens
Efficiency: N/A
Efficacy: 110.9 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

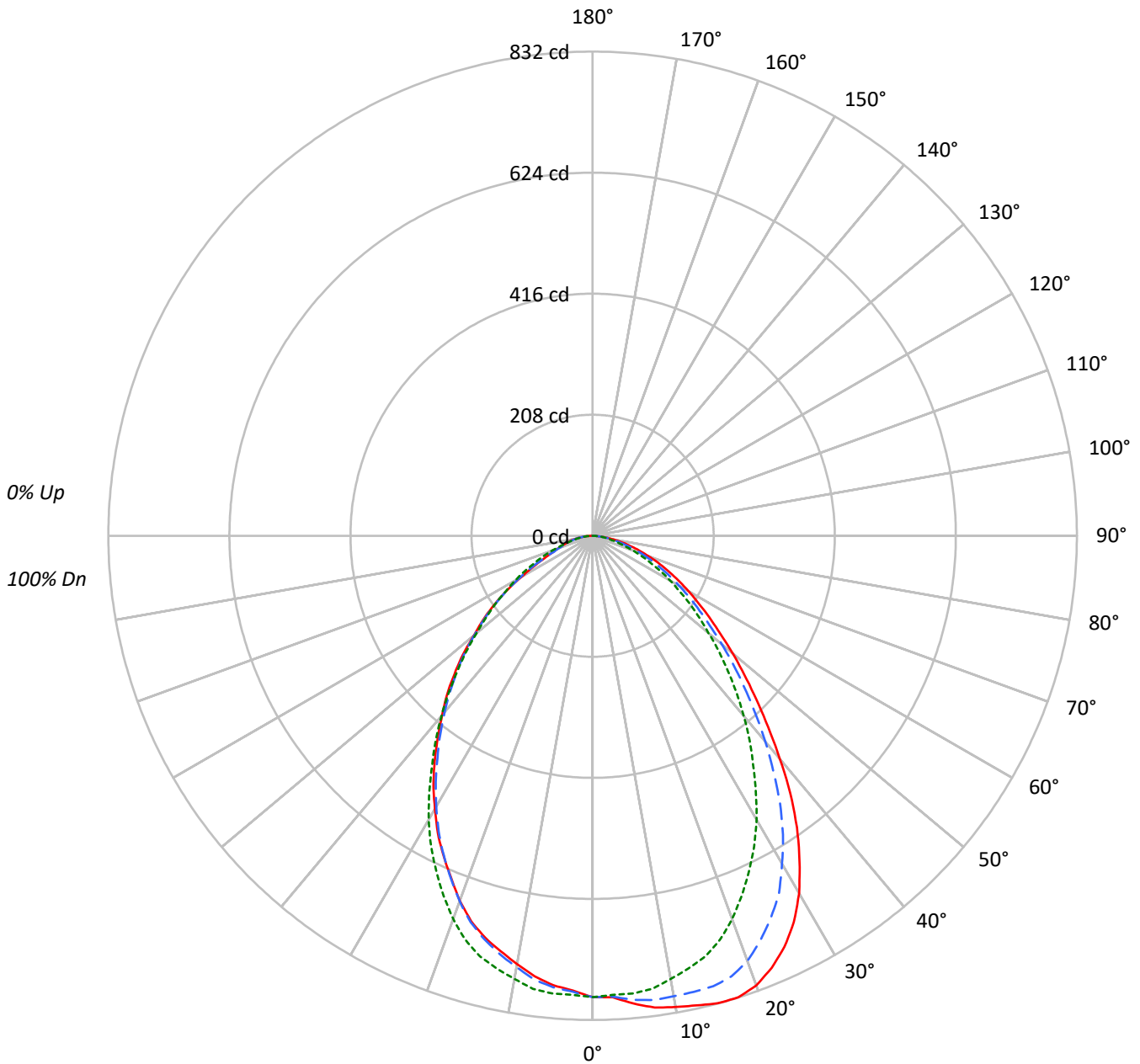
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					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				100				
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87				87				
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76				76				
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66				66				
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58				58				
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52				52				
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46				46				
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42				42				
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38				38				
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34				34				
10	58	46	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31				31				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	43461	43461	43461
5°	44403	43446	42670
10°	45763	43046	41599
15°	47202	42475	40568
20°	47960	40878	38923
25°	47162	38452	36686
30°	44906	35651	34277
35°	40950	32183	31675
40°	35810	28904	28754
45°	30817	25437	26026
50°	26788	22166	22635
55°	23397	19459	19670
60°	20777	16863	15426
65°	18549	14191	11804
70°	16317	11621	9889
75°	14001	9193	9404
80°	11302	7861	9250
85°	7485	6793	8240



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.1	4.8
10°-20°	213.7	13.8
20°-30°	305.0	19.6
30°-40°	319.5	20.6
40°-50°	269.0	17.3
50°-60°	191.5	12.3
60°-70°	112.1	7.2
70°-80°	53.0	3.4
80°-90°	13.6	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°	593.8	38.2
0°-40°	913.3	58.8
0°-60°	1373.8	88.5
0°-90°	1552.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1552.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	793	793	793	793	793	
5°	807	800	790	779	775	78
15°	832	801	748	718	715	235
25°	780	725	636	605	606	357
35°	612	561	481	465	473	380
45°	398	368	328	329	336	309
55°	245	224	204	204	206	221
65°	143	127	109	92	91	143
75°	66	55	43	42	44	71
85°	12	10	11	13	13	15
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°	792.8	792.8	792.8	792.8	792.8	792.8	792.8	792.8	792.8
2.5°	793.8	793.8	792.8	791.7	789.5	786.3	784.2	782.0	782.0
5°	806.9	804.7	800.4	795.0	789.5	783.0	778.7	775.4	775.4
7.5°	817.7	813.3	804.7	795.0	785.2	776.6	769.0	764.6	763.5
10°	822.1	816.6	803.6	788.5	773.3	761.4	752.7	747.3	747.3
12.5°	826.4	819.9	802.6	780.9	761.4	745.1	736.5	732.2	731.1
15°	831.7	823.1	801.4	774.4	748.4	730.0	718.1	714.8	714.8
17.5°	831.7	820.9	793.8	760.3	727.8	707.2	696.4	693.1	694.3
20°	822.1	810.2	777.6	736.5	700.7	679.1	668.3	666.1	667.2
22.5°	803.6	789.5	752.7	708.4	669.3	646.6	636.8	636.8	635.7
25°	779.7	764.6	724.6	677.9	635.7	613.0	605.4	606.5	606.5
27.5°	748.4	733.2	693.1	643.3	601.1	578.4	572.9	575.1	576.1
30°	709.4	693.1	650.9	602.2	563.2	540.5	537.2	540.5	541.5
32.5°	661.7	649.8	608.7	558.9	522.0	502.6	501.4	504.7	509.0
35°	611.9	598.9	561.0	515.5	480.9	464.7	464.7	470.0	473.3
37.5°	557.7	544.8	510.1	472.2	443.0	427.8	429.9	435.4	436.5
40°	500.4	490.7	461.4	428.9	403.9	392.0	395.3	400.8	401.8
42.5°	446.2	437.5	413.7	384.5	366.0	357.4	361.7	368.2	370.4
45°	397.5	387.7	368.2	343.3	328.1	323.8	329.3	333.6	335.7
47.5°	353.1	344.4	328.1	305.4	294.6	292.4	297.8	300.0	302.1
50°	314.1	305.4	289.2	268.5	259.9	259.9	264.2	266.4	265.4
52.5°	276.1	268.5	253.4	236.1	230.7	230.7	233.9	235.1	237.2
55°	244.8	237.2	224.2	207.9	203.6	201.5	203.6	203.6	205.8
57.5°	215.5	209.1	197.1	181.9	176.5	174.3	173.3	172.2	174.3
60°	189.5	184.1	171.2	158.1	153.8	148.3	144.0	139.7	140.7
62.5°	165.7	160.3	148.3	135.4	131.1	123.5	118.0	112.6	114.7
65°	143.0	137.6	126.7	115.9	109.4	100.7	92.0	88.8	91.0
67.5°	122.4	118.0	107.3	96.4	91.0	81.3	72.5	72.5	73.7
70°	101.8	97.5	88.8	79.1	72.5	63.9	60.6	61.7	61.7
72.5°	83.4	80.1	71.5	62.8	56.3	50.8	50.8	52.0	53.1
75°	66.1	63.9	55.3	47.7	43.4	40.1	42.2	43.4	44.4
77.5°	50.8	47.7	41.2	35.8	32.5	33.6	35.8	36.8	37.9
80°	35.8	34.6	29.3	26.0	24.9	26.0	28.1	29.3	29.3
82.5°	22.7	21.7	18.4	17.4	17.4	18.4	20.5	20.5	20.5
85°	11.9	10.8	9.8	9.8	10.8	11.9	13.1	13.1	13.1
87.5°	4.3	3.3	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)