

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: P581729

Luminaire Tested: **HC615D010-HM60525830-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581729
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-HM60525830-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1528.0 lumens
Efficiency: N/A
Efficacy: 109.1 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

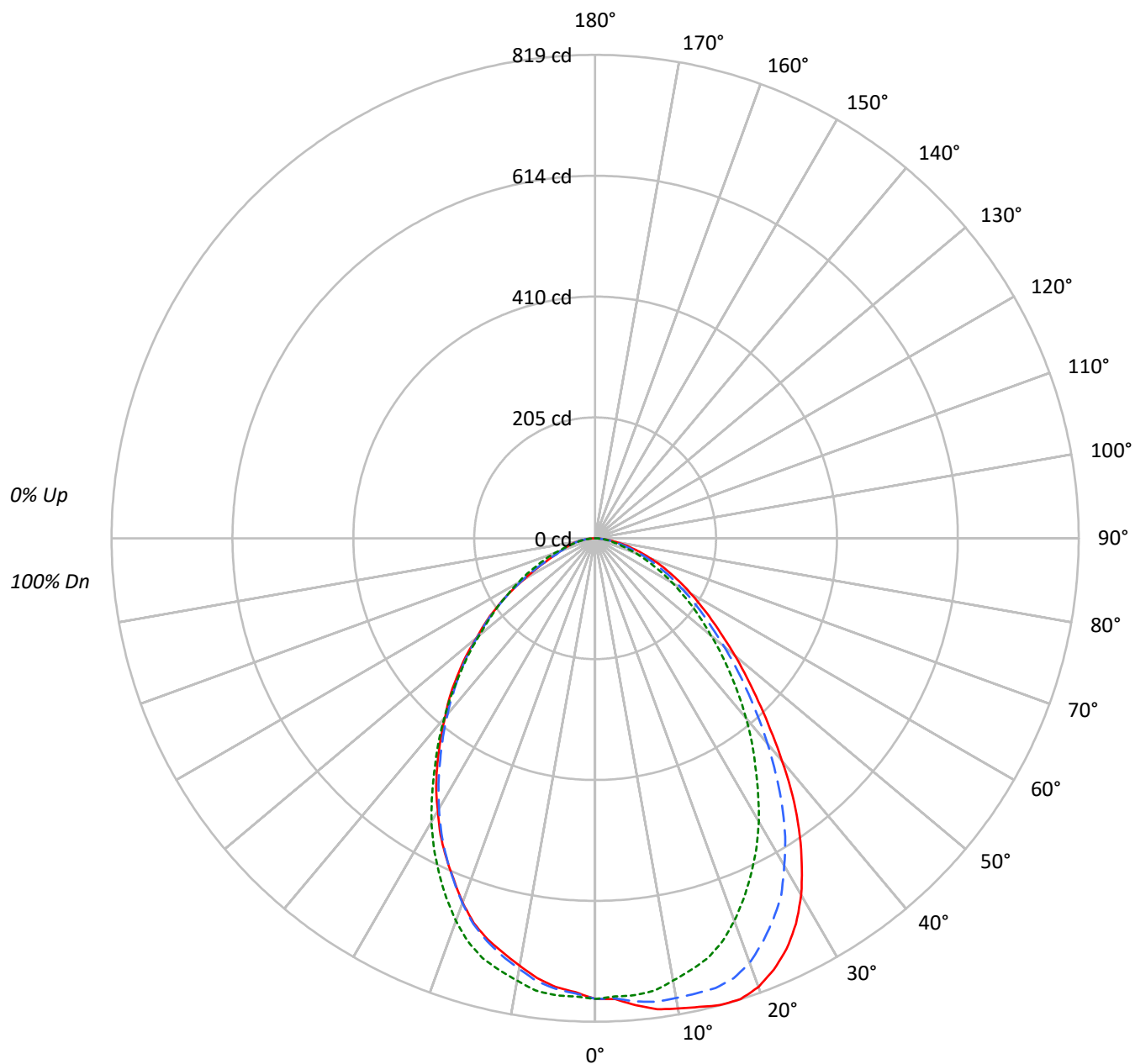
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87		
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76		
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66		
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58		
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52		
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	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	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	42776	42776	42776
5°	43704	42758	41999
10°	45034	42362	40942
15°	46465	41799	39926
20°	47196	40230	38305
25°	46424	37847	36105
30°	44190	35088	33739
35°	40301	31675	31173
40°	35245	28453	28296
45°	30329	25041	25615
50°	26370	21816	22276
55°	23015	19153	19354
60°	20459	16600	15196
65°	18251	13970	11623
70°	16060	11444	9729
75°	13768	9044	9256
80°	11113	7735	9092
85°	7359	6730	8051



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.9	4.8
10°-20°	210.3	13.8
20°-30°	300.2	19.6
30°-40°	314.5	20.6
40°-50°	264.8	17.3
50°-60°	188.5	12.3
60°-70°	110.3	7.2
70°-80°	52.2	3.4
80°-90°	13.4	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°	584.4	38.2
0°-40°	898.9	58.8
0°-60°	1352.1	88.5
0°-90°	1528.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1528.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	780	780	780	780	780	
5°	794	788	777	766	763	76
15°	819	789	736	707	704	231
25°	768	713	626	596	597	351
35°	602	552	473	457	466	374
45°	391	362	323	324	330	304
55°	241	221	200	200	202	217
65°	141	125	108	91	90	140
75°	65	54	43	42	44	70
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°	780.3	780.3	780.3	780.3	780.3	780.3	780.3	780.3	780.3
2.5°	781.3	781.3	780.3	779.2	777.0	773.8	771.7	769.6	769.6
5°	794.2	792.0	787.7	782.4	777.0	770.7	766.4	763.2	763.2
7.5°	804.8	800.5	792.0	782.4	772.8	764.3	756.8	752.5	751.5
10°	809.0	803.7	790.9	776.0	761.0	749.3	740.8	735.5	735.5
12.5°	813.3	806.9	789.8	768.5	749.3	733.3	724.8	720.6	719.5
15°	818.7	810.0	788.8	762.2	736.5	718.5	706.8	703.5	703.5
17.5°	818.7	808.0	781.3	748.3	716.3	696.1	685.4	682.2	683.3
20°	809.0	797.3	765.3	724.8	689.6	668.3	657.7	655.6	656.6
22.5°	790.9	777.0	740.8	697.1	658.8	636.4	626.7	626.7	625.7
25°	767.5	752.5	713.1	667.3	625.7	603.4	595.9	596.9	596.9
27.5°	736.5	721.6	682.2	633.2	591.6	569.2	563.9	566.0	567.0
30°	698.1	682.2	640.6	592.7	554.3	531.9	528.7	531.9	533.0
32.5°	651.3	639.6	599.1	550.0	513.8	494.6	493.5	496.7	501.0
35°	602.2	589.4	552.2	507.3	473.3	457.3	457.3	462.6	465.8
37.5°	549.0	536.2	502.0	464.8	436.0	421.1	423.1	428.5	429.6
40°	492.5	482.8	454.1	422.1	397.6	385.9	389.1	394.4	395.4
42.5°	439.1	430.6	407.2	378.4	360.2	351.7	356.0	362.4	364.6
45°	391.2	381.6	362.4	337.9	323.0	318.7	324.0	328.4	330.4
47.5°	347.5	338.9	323.0	300.5	289.9	287.8	293.2	295.2	297.4
50°	309.2	300.5	284.7	264.3	255.8	255.8	260.1	262.2	261.2
52.5°	271.8	264.3	249.5	232.3	227.0	227.0	230.3	231.3	233.5
55°	240.8	233.5	220.6	204.6	200.4	198.3	200.4	200.4	202.5
57.5°	212.1	205.8	194.0	179.1	173.8	171.6	170.6	169.5	171.6
60°	186.6	181.3	168.4	155.6	151.4	146.1	141.8	137.4	138.6
62.5°	163.1	157.8	146.1	133.2	128.9	121.6	116.2	110.9	112.9
65°	140.7	135.4	124.7	114.1	107.7	99.1	90.6	87.4	89.6
67.5°	120.4	116.2	105.6	94.9	89.6	79.9	71.4	71.4	72.5
70°	100.2	95.9	87.4	77.9	71.4	62.9	59.7	60.7	60.7
72.5°	82.1	78.9	70.4	61.9	55.4	50.1	50.1	51.2	52.2
75°	65.0	62.9	54.4	46.9	42.7	39.4	41.5	42.7	43.7
77.5°	50.1	46.9	40.5	35.2	32.0	33.0	35.2	36.2	37.3
80°	35.2	34.2	28.8	25.5	24.5	25.5	27.7	28.8	28.8
82.5°	22.4	21.3	18.2	17.0	17.0	18.2	20.2	20.2	20.2
85°	11.7	10.7	9.6	9.6	10.7	11.7	12.8	12.8	12.8
87.5°	4.3	3.2	4.3	4.3	5.3	5.3	5.3	5.3	5.3
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)