

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: P593409

Luminaire Tested: **HC655D010-HM64560950-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593409
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: HC655D010-HM64560950-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4442.8 lumens
Efficiency: N/A
Efficacy: 85.4 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

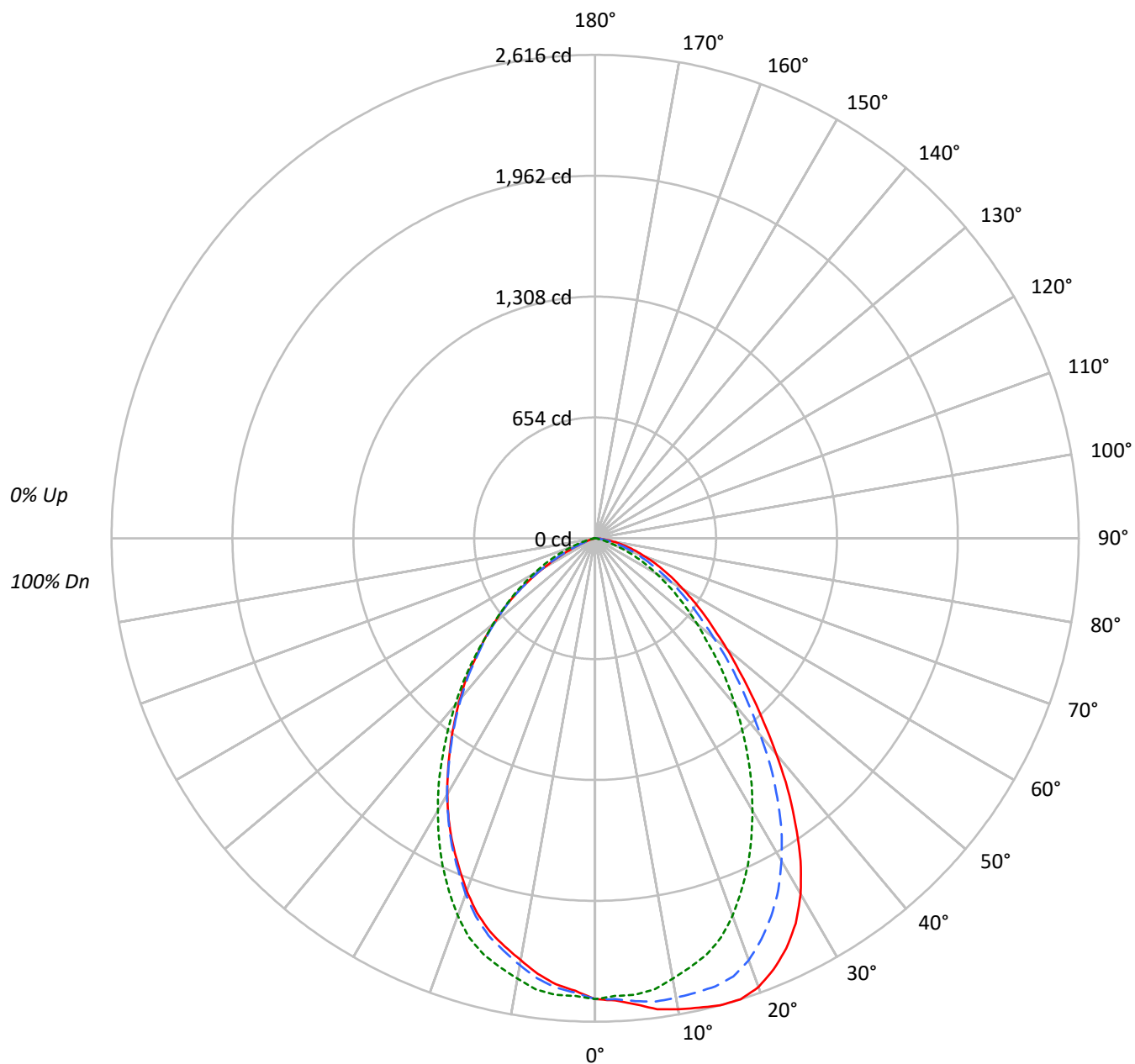
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	136678	136678	136678
5°	139318	136424	133337
10°	144052	134684	129028
15°	148457	132339	124984
20°	150764	126828	118444
25°	148043	118138	110293
30°	140724	107656	101212
35°	126491	96215	91283
40°	109162	84308	81553
45°	92428	72581	70682
50°	79247	61303	60706
55°	68700	51611	49604
60°	59973	41905	35370
65°	52755	32299	19561
70°	45521	21350	9553
75°	38613	10400	3707
80°	29865	4451	2210
85°	17612	2201	2201



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.3	5.3
10°-20°	665.3	15.0
20°-30°	936.9	21.1
30°-40°	957.3	21.5
40°-50°	771.8	17.4
50°-60°	517.7	11.7
60°-70°	262.0	5.9
70°-80°	83.7	1.9
80°-90°	12.9	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°	1837.5	41.4
0°-40°	2794.8	62.9
0°-60°	4084.2	91.9
0°-90°	4442.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4442.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2493	2493	2493	2493	2493	
5°	2532	2514	2479	2440	2423	244
15°	2616	2511	2332	2227	2202	739
25°	2448	2255	1953	1834	1823	1121
35°	1890	1718	1438	1357	1364	1176
45°	1192	1098	936	905	912	927
55°	719	638	540	515	519	647
65°	407	337	249	165	151	406
75°	182	130	49	18	18	196
85°	28	14	4	4	4	38
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°	2493.2	2493.2	2493.2	2493.2	2493.2	2493.2	2493.2	2493.2	2493.2
2.5°	2503.7	2500.2	2496.6	2489.6	2479.1	2468.6	2461.6	2454.6	2451.1
5°	2531.7	2524.8	2514.2	2500.2	2479.1	2454.6	2440.5	2426.6	2423.0
7.5°	2570.3	2556.2	2528.2	2496.6	2461.6	2426.6	2402.0	2388.0	2377.5
10°	2587.8	2563.3	2524.8	2472.1	2419.5	2377.5	2345.9	2324.8	2317.9
12.5°	2601.9	2573.9	2517.7	2447.5	2377.5	2321.3	2286.3	2268.8	2261.7
15°	2615.8	2587.8	2510.7	2419.5	2331.8	2265.2	2226.6	2209.1	2202.2
17.5°	2615.8	2577.3	2486.1	2370.4	2265.2	2184.5	2146.0	2128.5	2124.9
20°	2584.3	2542.3	2430.0	2293.2	2174.0	2082.9	2047.8	2037.2	2030.3
22.5°	2524.8	2475.7	2349.3	2195.1	2065.4	1977.7	1939.1	1932.1	1925.1
25°	2447.5	2398.4	2254.7	2089.9	1953.1	1865.5	1833.9	1826.9	1823.4
27.5°	2349.3	2296.8	2146.0	1977.7	1830.5	1746.2	1718.2	1718.2	1714.6
30°	2223.1	2163.6	2016.3	1848.0	1700.7	1623.5	1602.5	1602.5	1598.9
32.5°	2068.8	2009.2	1876.0	1714.6	1574.5	1493.8	1476.3	1483.2	1479.8
35°	1890.1	1841.0	1718.2	1560.4	1437.7	1364.0	1357.0	1364.0	1364.0
37.5°	1711.2	1665.5	1560.4	1423.6	1307.9	1241.3	1241.3	1251.9	1248.3
40°	1525.4	1490.2	1392.0	1272.9	1178.1	1132.6	1125.6	1136.2	1139.6
42.5°	1350.0	1322.0	1237.8	1139.6	1055.5	1009.9	1020.5	1027.4	1030.9
45°	1192.2	1164.2	1097.6	995.8	936.2	904.6	904.6	915.2	911.7
47.5°	1051.9	1030.9	964.3	866.1	813.5	799.5	806.5	813.5	813.5
50°	929.2	897.7	834.6	757.4	718.8	701.3	708.3	711.8	711.8
52.5°	813.5	792.5	729.3	659.3	624.2	613.6	613.6	617.2	617.2
55°	718.8	694.3	638.2	568.1	540.0	526.0	515.4	512.0	519.0
57.5°	627.7	606.6	554.0	487.4	455.8	441.9	420.8	413.8	420.8
60°	547.0	529.5	476.9	413.8	382.2	354.2	329.6	315.6	322.6
62.5°	476.9	455.8	403.3	350.6	315.6	284.0	245.5	224.4	234.9
65°	406.7	389.2	336.7	284.0	249.0	210.3	164.8	150.8	150.8
67.5°	343.7	326.2	277.1	231.4	189.4	143.7	101.7	98.2	101.7
70°	284.0	266.5	224.4	178.9	133.2	87.7	59.6	59.6	59.6
72.5°	234.9	213.9	175.3	129.8	84.1	45.5	31.6	35.0	35.0
75°	182.3	164.8	129.8	87.7	49.1	21.1	17.5	17.5	17.5
77.5°	136.8	122.7	91.2	56.1	24.5	7.0	7.0	7.0	7.0
80°	94.6	80.7	59.6	35.0	14.1	7.0	7.0	7.0	7.0
82.5°	56.1	49.1	35.0	17.5	7.0	3.5	3.5	3.5	3.5
85°	28.0	24.5	14.1	7.0	3.5	3.5	3.5	3.5	3.5
87.5°	7.0	7.0	3.5	3.5	0.0	3.5	3.5	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)