

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: P582351

Luminaire Tested: **HC635D010-HM63040927-61RWWH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582351  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC635D010-HM63040927-61RWWH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3070.4 lumens  
Efficiency: N/A  
Efficacy: 91.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

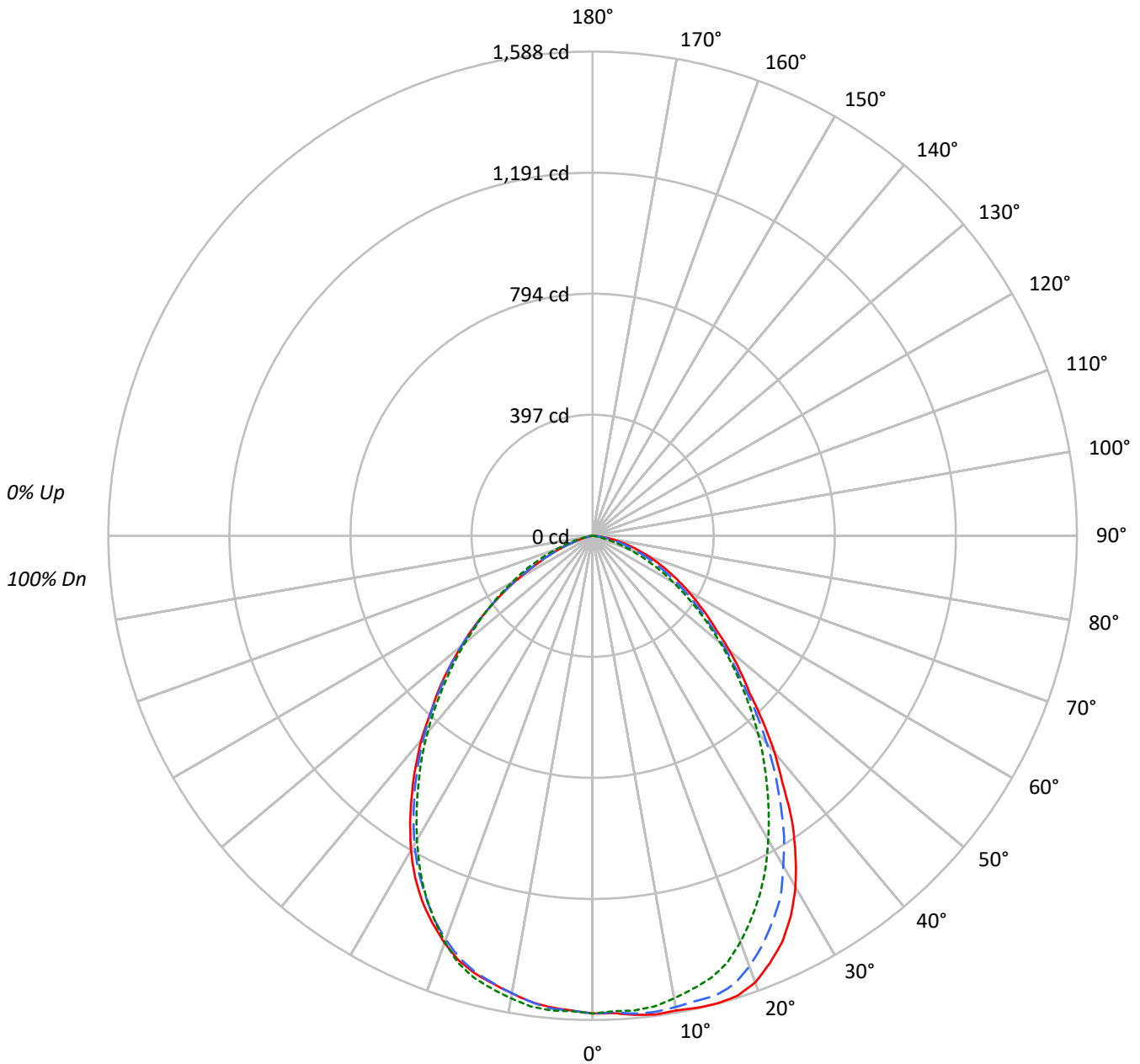
Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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					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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88								
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77								
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67								
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59								
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53								
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47								
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42								
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38								
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35								
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32								

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	85898	85898	85898
5°	86793	86000	85439
10°	88024	85737	84824
15°	90097	85199	84388
20°	90938	82666	82905
25°	88941	78507	80001
30°	84234	72929	75404
35°	76279	66655	69132
40°	66424	60256	62460
45°	56362	53331	55246
50°	49917	46591	47811
55°	43965	39846	39655
60°	39405	33550	30853
65°	35166	26903	22117
70°	30935	19410	13816
75°	26095	11734	7837
80°	20110	5209	3252
85°	11573	1321	1321



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.7	4.8
10°-20°	427.5	13.9
20°-30°	617.9	20.1
30°-40°	650.2	21.2
40°-50°	546.6	17.8
50°-60°	383.6	12.5
60°-70°	211.0	6.9
70°-80°	74.9	2.4
80°-90°	9.8	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°	1194.2	38.9
0°-40°	1844.4	60.1
0°-60°	2774.6	90.4
0°-90°	3070.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3070.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1567	1567	1567	1567	1567	
5°	1577	1573	1563	1557	1553	151
15°	1588	1561	1501	1483	1487	448
25°	1470	1396	1298	1300	1323	673
35°	1140	1074	996	1017	1033	706
45°	727	706	688	704	713	570
55°	460	435	417	417	415	414
65°	271	242	207	170	170	270
75°	123	99	55	37	37	132
85°	18	10	2	2	2	25
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°	1566.9	1566.9	1566.9	1566.9	1566.9	1566.9	1566.9	1566.9	1566.9
2.5°	1566.9	1566.9	1564.8	1564.8	1560.7	1560.7	1558.8	1558.8	1558.8
5°	1577.2	1577.2	1573.1	1566.9	1562.8	1556.7	1556.7	1554.6	1552.6
7.5°	1583.4	1581.3	1575.1	1566.9	1556.7	1546.4	1542.3	1544.3	1542.3
10°	1581.3	1577.2	1569.0	1552.6	1540.2	1525.9	1523.8	1521.8	1523.8
12.5°	1585.4	1579.2	1562.8	1542.3	1521.8	1505.3	1503.2	1503.2	1505.3
15°	1587.5	1581.3	1560.7	1529.9	1501.2	1484.8	1482.7	1484.8	1486.9
17.5°	1581.3	1573.1	1542.3	1501.2	1468.3	1451.9	1451.9	1456.1	1460.2
20°	1558.8	1546.4	1503.2	1454.0	1417.0	1404.7	1408.8	1417.0	1421.1
22.5°	1517.7	1503.2	1454.0	1398.5	1359.6	1349.3	1359.6	1369.8	1373.9
25°	1470.4	1454.0	1396.4	1339.0	1297.9	1285.6	1299.9	1316.4	1322.6
27.5°	1406.7	1388.3	1334.8	1269.1	1228.0	1222.0	1238.3	1256.9	1260.9
30°	1330.7	1310.2	1250.7	1189.1	1152.1	1150.1	1168.5	1185.0	1191.2
32.5°	1238.3	1219.9	1168.5	1106.9	1074.1	1074.1	1092.5	1106.9	1113.1
35°	1139.8	1119.3	1074.1	1022.8	996.0	998.0	1016.6	1026.8	1033.0
37.5°	1022.8	1016.6	981.7	938.5	920.1	924.1	938.5	946.7	952.9
40°	928.2	911.8	889.3	854.4	842.0	846.1	860.4	868.7	872.8
42.5°	825.5	815.3	796.8	772.2	763.9	770.1	782.5	788.5	786.6
45°	727.0	724.9	706.5	692.0	687.9	696.2	704.4	710.6	712.6
47.5°	655.2	646.9	630.4	620.1	616.1	624.3	632.5	636.6	636.6
50°	585.3	577.1	560.6	550.4	546.3	554.4	560.6	564.7	560.6
52.5°	515.5	507.3	492.8	480.6	478.5	482.6	484.7	486.8	490.8
55°	460.0	451.7	435.4	420.9	416.9	419.0	416.9	416.9	414.9
57.5°	406.6	398.4	382.0	365.5	359.4	357.3	351.2	349.2	347.1
60°	359.4	349.2	332.7	314.2	306.0	297.8	287.5	281.4	281.4
62.5°	314.2	303.9	285.4	269.0	256.7	242.4	225.9	217.6	217.6
65°	271.1	262.8	242.4	223.8	207.4	188.9	170.5	166.3	170.5
67.5°	230.0	221.8	201.3	182.8	162.2	139.7	123.2	123.2	127.3
70°	193.0	184.9	166.3	143.8	121.1	98.6	86.2	86.2	86.2
72.5°	158.1	150.0	129.4	108.9	86.2	63.7	57.5	59.5	57.5
75°	123.2	117.1	98.6	76.0	55.4	39.0	37.0	34.9	37.0
77.5°	92.4	86.2	69.8	49.2	30.8	22.6	20.5	20.5	20.5
80°	63.7	57.5	45.2	28.7	16.5	10.3	10.3	10.3	10.3
82.5°	39.0	32.9	24.6	14.4	6.2	6.2	6.2	6.2	6.2
85°	18.4	14.4	10.3	4.1	2.1	2.1	2.1	2.1	2.1
87.5°	4.1	4.1	2.1	2.1	0.0	2.1	2.1	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)