

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: P581864

Luminaire Tested: **HC620D010-HM60525830-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581864
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC620D010-HM60525830-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2145.0 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

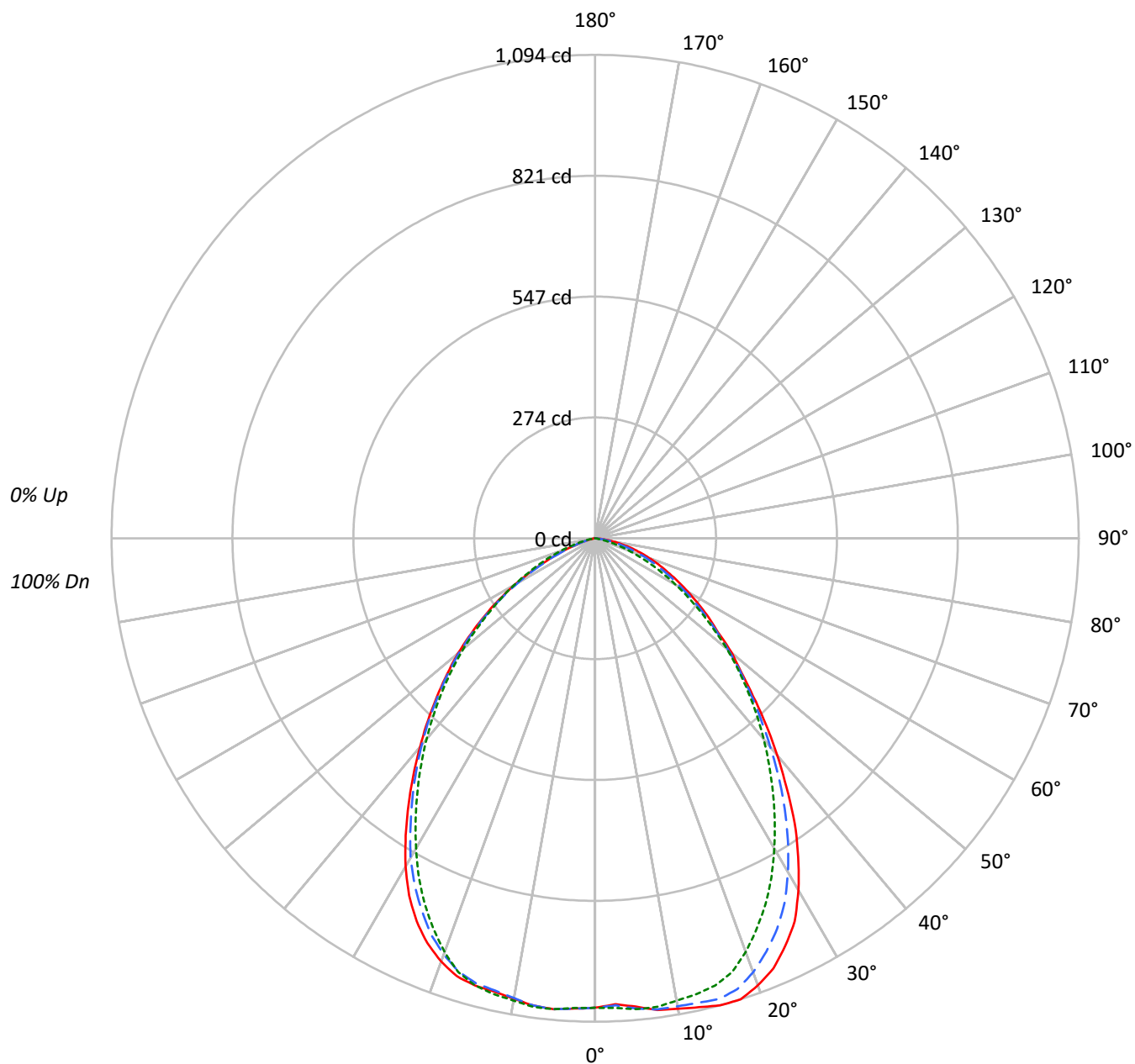
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	111	107	104	101	108	105	102	99		101	98	96			97	95	93			94
2	103	96	90	86	100	94	89	85		91	86	83			88	84	81			85
3	95	86	79	74	93	85	78	73		82	76	72			79	75	71			77
4	88	78	70	64	86	76	69	64		74	68	63			72	67	62			70
5	82	70	62	57	80	69	62	56		67	61	56			65	60	55			64
6	76	64	56	50	74	63	56	50		62	55	50			60	54	49			58
7	71	59	51	45	69	58	50	45		56	50	45			55	49	45			54
8	66	54	46	41	65	53	46	41		52	45	41			51	45	40			50
9	62	50	42	37	61	49	42	37		48	42	37			47	41	37			46
10	59	46	39	34	57	46	39	34		45	38	34			44	38	34			43

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	58241	58241	58241
5°	58546	58865	58865
10°	60186	59139	58900
15°	62095	59478	59478
20°	62819	58117	59459
25°	61570	55207	57820
30°	58230	51305	54312
35°	52695	46920	49235
40°	45843	42444	44090
45°	39175	37841	39175
50°	34378	33150	34506
55°	29992	27927	29036
60°	26522	23200	22882
65°	23530	18303	15683
70°	20773	12935	9457
75°	17686	7329	4575
80°	13165	2305	1357
85°	7296	943	943



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.9	4.8
10°-20°	298.2	13.9
20°-30°	435.5	20.3
30°-40°	456.7	21.3
40°-50°	384.8	17.9
50°-60°	269.6	12.6
60°-70°	144.5	6.7
70°-80°	48.5	2.3
80°-90°	5.3	0.2
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°	835.6	39.0
0°-40°	1292.3	60.2
0°-60°	1946.7	90.8
0°-90°	2145.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2145.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1062	1062	1062	1062	1062	
5°	1064	1068	1070	1070	1070	102
15°	1094	1080	1048	1042	1048	309
25°	1018	975	913	929	956	466
35°	787	747	701	721	736	489
45°	505	497	488	501	505	394
55°	314	304	292	298	304	282
65°	181	166	141	117	121	181
75°	84	65	35	22	22	89
85°	12	6	2	2	2	16
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°	1062.4	1062.4	1062.4	1062.4	1062.4	1062.4	1062.4	1062.4	1062.4
2.5°	1055.3	1055.3	1058.1	1061.1	1063.9	1063.9	1065.4	1066.8	1065.4
5°	1063.9	1063.9	1068.2	1069.7	1069.7	1068.2	1069.7	1069.7	1069.7
7.5°	1076.8	1074.0	1075.4	1072.5	1069.7	1068.2	1066.8	1066.8	1066.8
10°	1081.2	1078.3	1075.4	1069.7	1062.4	1058.1	1056.7	1058.1	1058.1
12.5°	1086.9	1084.1	1076.8	1065.4	1056.7	1049.5	1048.0	1051.0	1051.0
15°	1094.1	1091.3	1079.7	1061.1	1048.0	1040.9	1042.4	1045.2	1048.0
17.5°	1094.1	1088.4	1069.7	1045.2	1029.3	1022.2	1027.9	1035.1	1039.4
20°	1076.8	1071.1	1045.2	1014.9	996.2	991.9	1002.0	1014.9	1019.2
22.5°	1053.8	1042.4	1012.1	976.1	955.9	955.9	970.3	986.2	991.9
25°	1017.9	1009.2	974.6	932.9	912.7	911.3	928.6	950.1	955.9
27.5°	977.6	966.0	928.6	885.4	863.8	865.3	884.0	905.5	911.3
30°	919.9	905.5	872.4	830.7	810.5	816.3	835.0	850.9	858.0
32.5°	855.2	842.2	811.9	773.0	755.8	761.6	777.5	791.9	797.5
35°	787.4	773.0	747.2	712.7	701.1	706.9	721.3	732.8	735.7
37.5°	711.2	701.1	682.4	655.0	646.4	653.6	665.1	672.3	675.2
40°	640.6	632.0	616.1	596.0	593.1	598.9	610.5	614.8	616.1
42.5°	571.5	564.3	554.3	539.9	539.9	545.7	555.7	558.6	560.0
45°	505.3	501.0	496.7	485.2	488.1	495.2	501.0	505.3	505.3
47.5°	447.8	449.1	443.5	434.7	437.7	444.8	449.1	453.5	453.5
50°	403.1	398.8	393.0	384.4	388.7	394.5	400.2	403.1	404.6
52.5°	351.2	349.9	345.6	335.5	338.3	341.1	346.9	351.2	352.7
55°	313.8	309.5	303.8	292.2	292.2	295.1	298.0	300.9	303.8
57.5°	277.8	273.5	264.9	252.0	250.5	250.5	249.0	252.0	256.3
60°	241.9	240.4	227.5	215.9	211.6	207.3	201.6	203.0	208.7
62.5°	210.2	207.3	195.8	181.4	172.8	165.5	158.4	156.9	162.7
65°	181.4	178.6	165.5	151.1	141.1	128.1	116.6	116.6	120.9
67.5°	155.4	149.7	138.2	122.4	109.4	93.6	82.0	85.0	86.3
70°	129.6	125.2	112.3	96.4	80.7	64.8	57.6	59.0	59.0
72.5°	106.5	100.7	87.8	71.9	56.2	41.7	38.9	37.4	37.4
75°	83.5	77.7	64.8	48.9	34.6	24.5	21.6	21.6	21.6
77.5°	60.5	56.2	44.6	30.3	18.7	11.6	10.1	8.6	8.6
80°	41.7	37.4	27.3	15.9	7.3	4.3	4.3	4.3	4.3
82.5°	24.5	20.2	12.9	7.3	2.8	1.5	1.5	1.5	1.5
85°	11.6	8.6	5.8	2.8	1.5	1.5	1.5	1.5	1.5
87.5°	1.5	1.5	1.5	0.0	0.0	0.0	0.0	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)