

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P210594

Luminaire Tested: **PR8S10D010 - PR8M12WW - 3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210594
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29047)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR8S10D010 - PR8M12WW - 3000K
Description: HALO 8" ROUND DOWNLIGHT, WALLWASH, MATTE WHITE FINISH
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 841.9 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Spacing Criteria (0/90/45): 0.99 / 1.19 / 1.17
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

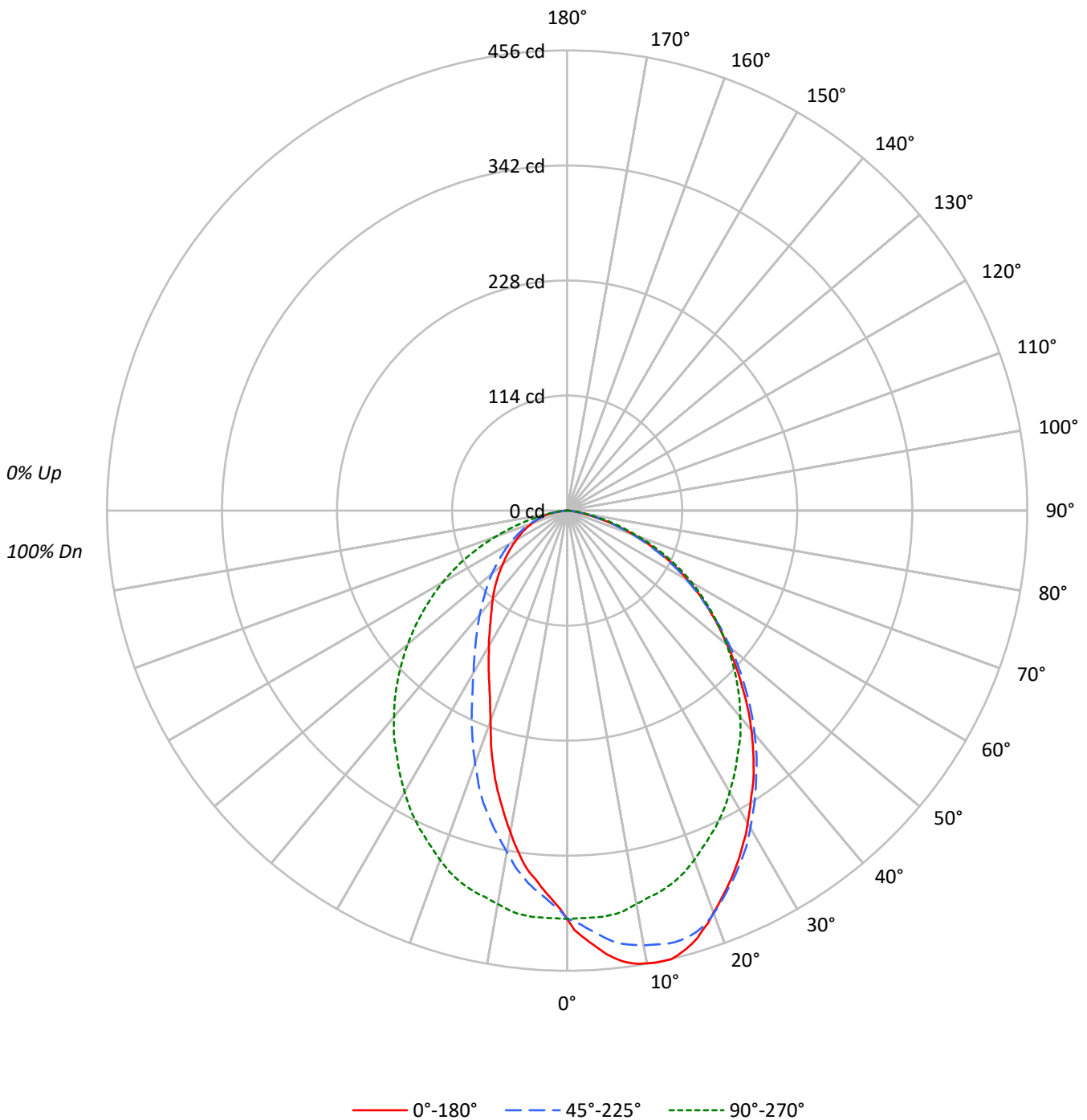
Input Watts (W): 10.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88					86				
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76					74				
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66					63				
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57					55				
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	50					48				
6	73	61	52	46	71	60	52	46	58	51	46	56	50	45	55	49	45					43				
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40					38				
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37					35				
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33					32				
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30					29				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	12473	12473	12473
5°	13648	12509	11329
10°	14266	12396	10139
15°	14388	12310	8795
20°	13917	12089	7282
25°	13371	11810	6240
30°	12740	11472	5526
35°	12129	11094	4977
40°	11436	10744	4613
45°	10676	10353	4304
50°	9935	9897	4006
55°	9242	9376	3785
60°	8535	8788	3583
65°	7618	8004	3466
70°	6347	6789	3318
75°	4539	5218	3217
80°	2681	3410	3054
85°	1451	1309	1451



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.1	4.5
10°-20°	104.8	12.5
20°-30°	144.7	17.2
30°-40°	158.0	18.8
40°-50°	148.6	17.6
50°-60°	121.2	14.4
60°-70°	82.4	9.8
70°-80°	37.9	4.5
80°-90°	6.2	0.7
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°	287.6	34.2
0°-40°	445.6	52.9
0°-60°	715.4	85.0
0°-90°	841.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	841.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	404	404	404	404	404	
5°	441	425	404	376	366	43
15°	451	440	386	308	276	126
25°	393	396	347	224	183	181
35°	322	326	295	158	132	201
45°	245	250	237	115	99	189
55°	172	172	174	81	70	154
65°	104	102	110	52	48	103
75°	38	39	44	28	27	42
85°	4	4	4	4	4	6
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°	404.5	404.5	404.5	404.5	404.5	404.5	404.5	404.5	404.5
1°	415.9	411.4	406.9	405.7	404.5	398.3	396.3	396.7	394.6
2°	422.1	417.2	411.0	407.7	404.1	395.5	391.0	390.1	387.3
3°	428.2	423.3	415.5	409.8	404.1	392.6	385.6	383.2	380.3
4°	434.3	429.8	420.0	412.6	404.1	390.1	380.7	376.6	373.3
5°	440.9	435.2	424.9	415.1	404.1	387.7	376.2	369.7	366.0
6°	445.8	440.5	429.0	417.2	403.2	384.4	370.9	362.7	360.2
7°	449.9	444.6	432.3	418.4	402.4	381.1	364.8	355.3	352.5
8°	452.8	447.9	434.3	418.8	400.8	376.6	358.6	346.7	343.1
9°	454.8	449.9	436.0	419.2	398.3	371.7	351.2	338.1	333.6
10°	455.6	451.5	437.6	419.2	395.9	367.2	343.5	328.7	323.8
11°	456.5	452.8	438.4	419.2	393.8	362.7	336.5	319.7	314.0
12°	456.5	452.8	439.3	419.2	391.4	357.8	329.5	310.7	304.2
13°	456.5	453.2	440.5	419.6	390.1	354.1	322.6	302.1	294.7
14°	454.0	452.8	440.9	419.6	388.1	349.2	315.6	292.7	285.3
15°	450.7	450.3	440.1	419.2	385.6	344.3	308.3	283.3	275.5
16°	447.0	446.2	438.8	418.8	383.2	339.4	301.3	273.9	264.9
17°	442.5	442.1	436.8	417.2	379.9	334.0	293.1	263.6	254.6
18°	436.4	437.2	433.9	415.1	376.6	328.7	284.9	253.4	244.0
19°	431.1	431.5	429.8	411.8	372.5	321.8	275.1	243.2	232.5
20°	424.1	425.3	424.9	409.4	368.4	315.2	266.9	232.5	221.9
21°	418.0	419.2	419.2	406.1	363.9	309.1	257.9	222.3	212.5
22°	411.8	413.1	413.5	402.8	359.4	302.9	249.3	213.3	203.9
23°	405.7	406.9	407.7	399.5	355.3	296.8	240.7	204.7	196.5
24°	399.5	400.8	402.0	395.5	350.8	290.2	232.5	197.3	189.5
25°	393.0	394.6	396.3	392.2	347.1	284.5	223.9	190.4	183.4
26°	386.4	388.1	390.1	388.1	342.2	277.6	215.3	183.8	177.3
27°	379.5	381.5	384.0	383.6	337.7	271.4	207.1	177.7	171.1
28°	372.1	374.6	377.9	379.1	332.8	264.9	199.4	171.5	165.8
29°	366.0	367.2	370.5	373.8	327.5	257.9	192.4	165.8	160.1
30°	357.8	359.8	363.1	367.6	322.2	251.4	185.4	160.5	155.2
32.5°	339.0	341.4	345.1	353.3	308.7	234.6	170.7	148.2	142.9
35°	322.2	322.6	326.3	336.1	294.7	217.8	157.6	136.3	132.2
37.5°	302.9	305.0	308.3	320.5	282.1	201.4	145.7	126.5	122.8
40°	284.1	285.7	289.0	300.9	266.9	185.0	134.7	117.9	114.6
42.5°	264.9	266.5	269.8	283.3	252.6	168.7	124.0	109.7	106.8
45°	244.8	246.4	250.1	264.0	237.4	153.5	114.6	101.5	98.7
47.5°	226.0	226.4	230.9	244.8	221.9	140.4	105.6	93.7	91.3
50°	207.1	207.6	211.6	225.6	206.3	127.3	97.4	85.6	83.5
52.5°	189.5	189.5	192.0	205.9	190.4	115.4	88.4	78.2	77.0
55°	171.9	171.5	172.3	186.3	174.4	104.8	80.6	71.6	70.4
57.5°	155.2	153.9	154.3	167.0	158.4	94.2	73.3	65.5	64.3
60°	138.4	137.5	135.9	148.2	142.5	83.1	65.9	59.4	58.1
62.5°	121.6	120.8	119.5	129.4	126.5	73.7	58.9	53.6	52.8
65°	104.4	104.4	101.9	110.1	109.7	64.3	52.4	47.9	47.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	87.2	86.4	84.7	91.3	92.5	55.3	45.8	42.2	42.2
70°	70.4	70.4	68.0	72.5	75.3	46.7	39.7	37.3	36.8
72.5°	54.0	54.4	52.8	56.1	59.4	38.1	33.6	32.3	31.9
75°	38.1	39.7	39.3	41.8	43.8	29.9	27.8	27.0	27.0
77.5°	23.3	25.8	27.0	29.1	30.3	22.5	22.1	22.1	22.1
80°	15.1	15.6	16.4	18.4	19.2	15.6	16.0	16.8	17.2
82.5°	8.6	8.6	9.0	9.8	10.6	9.4	10.2	11.1	11.1
85°	4.1	3.7	3.7	3.7	3.7	4.1	4.1	4.5	4.1
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)