

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: P210374

Luminaire Tested: **PR8R10D010 - PR8M12WDMB - 3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210374
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29051)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR8R10D010 - PR8M12WDMB - 3000K
Description: HALO 8" ROUND DOWNLIGHT, WIDE LENS, MATTE BLACK FINISH
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1063.0 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.39
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

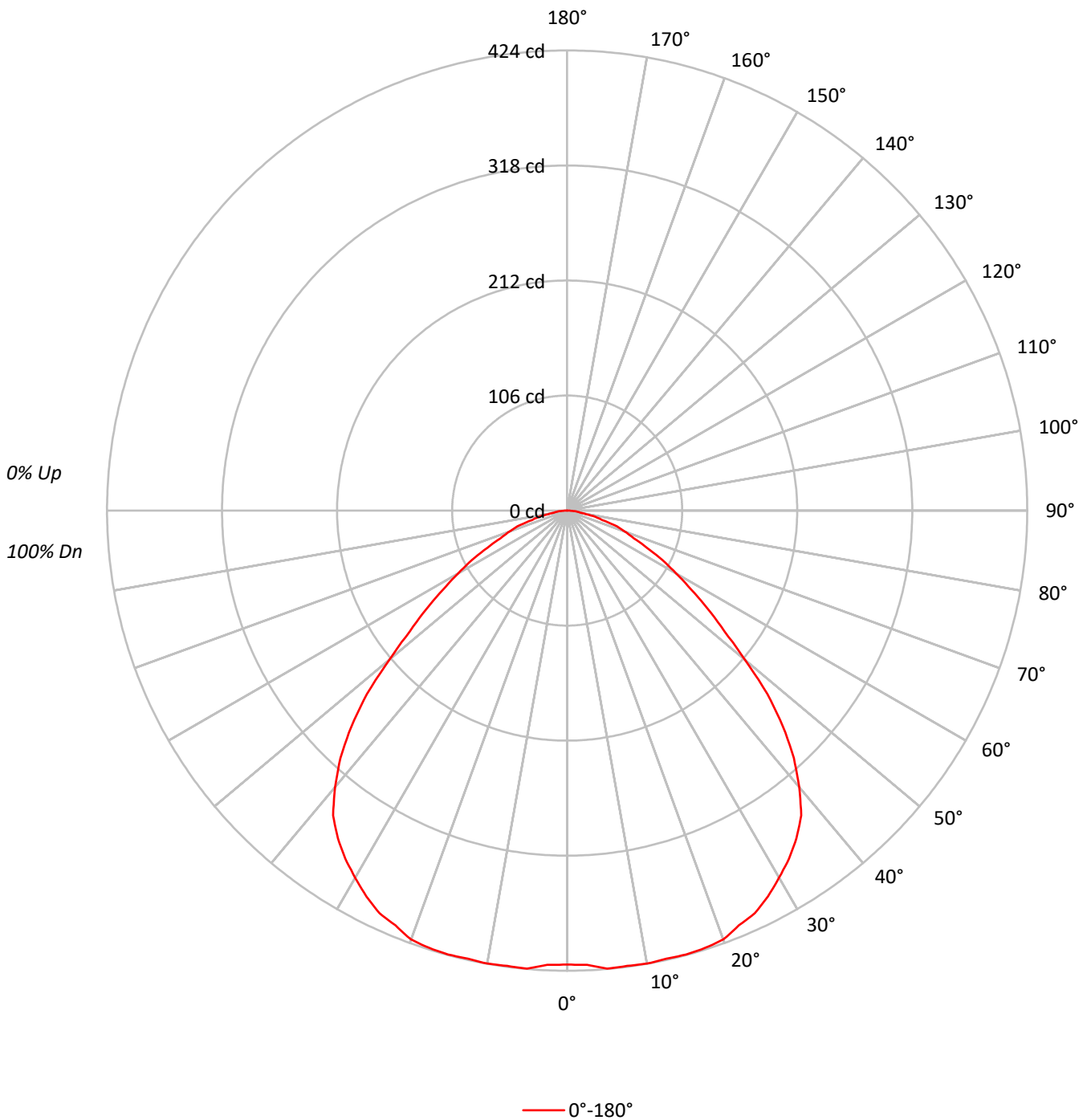
Input Watts (W): 10.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	106	103	99	108	104	101	98	100	97	95		96	94	92		92	91	89	87
2	102	94	88	83	99	92	87	82	89	84	80		86	82	79		83	80	77	75
3	93	84	77	71	91	82	76	70	79	74	69		77	72	68		74	70	67	65
4	86	75	67	61	84	74	66	61	71	65	60		69	64	59		67	62	58	56
5	80	68	59	53	78	67	59	53	64	58	52		63	57	52		61	56	51	49
6	74	61	53	47	72	60	52	47	59	52	46		57	51	46		55	50	46	44
7	68	56	48	42	67	55	47	42	53	46	41		52	46	41		51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37		48	42	37		47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34		44	38	33		43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	31		41	35	30		40	34	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	12899
5°	13115
10°	13273
15°	13520
20°	13802
25°	13929
30°	13908
35°	13872
40°	13392
45°	12263
50°	10247
55°	8516
60°	7160
65°	5917
70°	5085
75°	3991
80°	2770
85°	2901



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.4	3.8
10°-20°	119.8	11.3
20°-30°	188.2	17.7
30°-40°	229.4	21.6
40°-50°	214.4	20.2
50°-60°	143.0	13.5
60°-70°	82.3	7.7
70°-80°	37.9	3.6
80°-90°	7.7	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°	348.4	32.8
0°-40°	577.7	54.3
0°-60°	935.1	88.0
0°-90°	1063.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1063.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	418	
5°	424	40
15°	424	120
25°	409	188
35°	368	229
45°	281	214
55°	158	143
65°	81	82
75°	34	38
85°	8	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	418.3
2.5°	418.9
5°	423.7
7.5°	423.2
10°	423.9
12.5°	423.0
15°	423.5
17.5°	422.6
20°	420.6
22.5°	413.7
25°	409.4
27.5°	400.8
30°	390.6
32.5°	380.4
35°	368.5
37.5°	354.3
40°	332.7
42.5°	309.1
45°	281.2
47.5°	250.3
50°	213.6
52.5°	182.4
55°	158.4
57.5°	135.5
60°	116.1
62.5°	99.2
65°	81.1
67.5°	66.6
70°	56.4
72.5°	48.0
75°	33.5
77.5°	26.6
80°	15.6
82.5°	9.9
85°	8.2
87.5°	2.4
90°	0.0

(END OF REPORT)