

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: P210109

Luminaire Tested: **PR810D010 - PR8M12MDMB - 3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210109
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29044)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR810D010 - PR8M12MDMB - 3000K
Description: HALO 8" ROUND DOWNLIGHT, MEDIUM 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: 1072.2 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

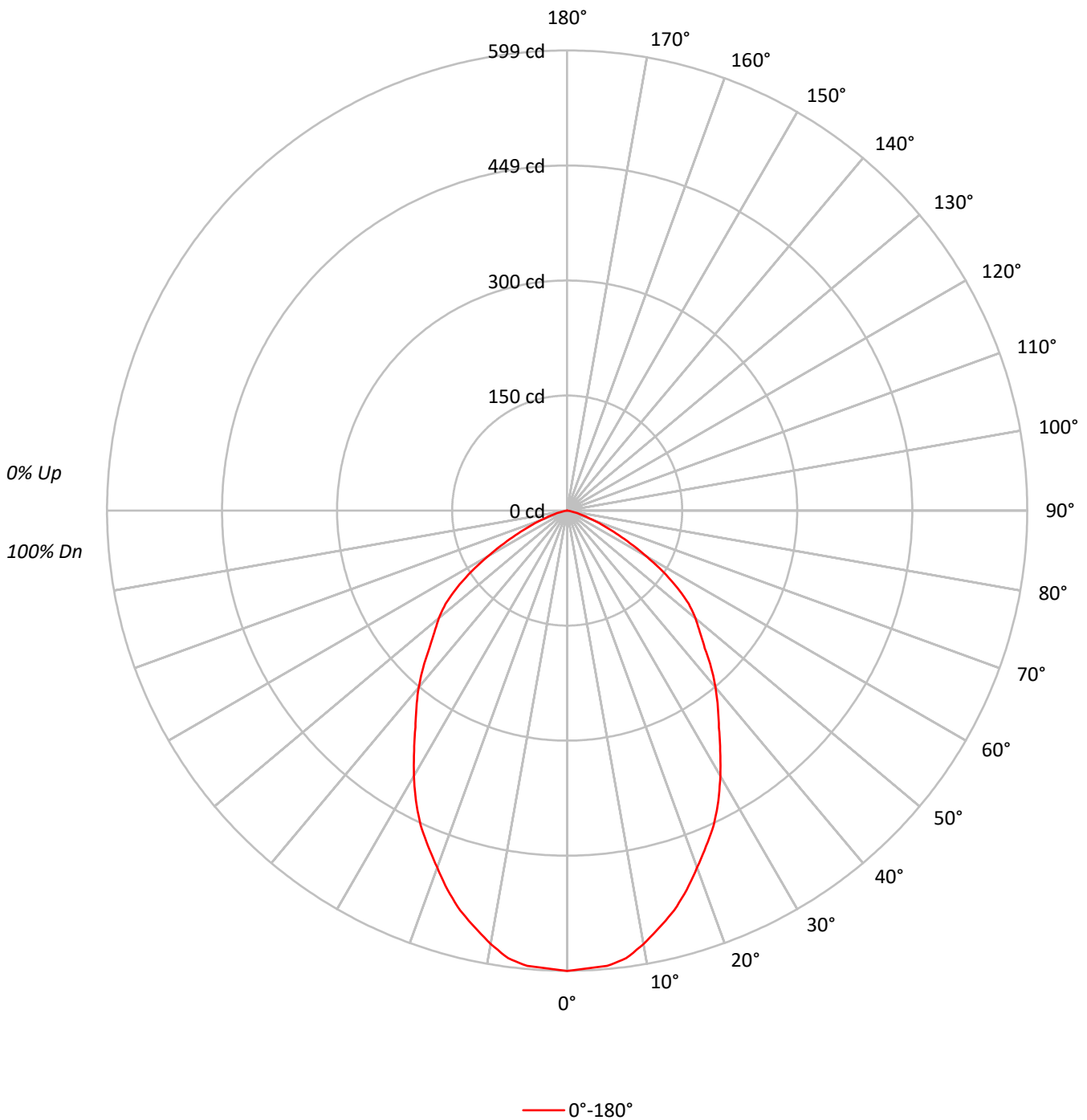
Input Watts (W): 10.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	103	96	91	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	60
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°
0°	18480
5°	18418
10°	17939
15°	17198
20°	16227
25°	15369
30°	14200
35°	12965
40°	12100
45°	11055
50°	10453
55°	9414
60°	7358
65°	5122
70°	3255
75°	1835
80°	515
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.1	5.2
10°-20°	150.9	14.1
20°-30°	206.7	19.3
30°-40°	216.7	20.2
40°-50°	197.5	18.4
50°-60°	154.1	14.4
60°-70°	71.8	6.7
70°-80°	17.9	1.7
80°-90°	0.5	0.0
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°	413.7	38.6
0°-40°	630.4	58.8
0°-60°	982.0	91.6
0°-90°	1072.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1072.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	599	
5°	595	56
15°	539	151
25°	452	207
35°	344	217
45°	254	197
55°	175	154
65°	70	72
75°	15	18
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	599.3
2.5°	596.4
5°	595.0
7.5°	587.8
10°	572.9
12.5°	555.6
15°	538.7
17.5°	517.6
20°	494.5
22.5°	472.8
25°	451.7
27.5°	426.2
30°	398.8
32.5°	370.9
35°	344.4
37.5°	322.3
40°	300.6
42.5°	277.5
45°	253.5
47.5°	234.2
50°	217.9
52.5°	199.6
55°	175.1
57.5°	147.7
60°	119.3
62.5°	92.4
65°	70.2
67.5°	51.0
70°	36.1
72.5°	24.5
75°	15.4
77.5°	8.7
80°	2.9
82.5°	0.5
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)