

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: P210290

Luminaire Tested: **PR810D010 - PR8M12WDMB - 3500K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210290
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: PR810D010 - PR8M12WDMB - 3500K
Description: HALO 8" ROUND DOWNLIGHT, WIDE LENS, MATTE BLACK FINISH
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1198.5 lumens
Efficiency: N/A
Efficacy: 114.1 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

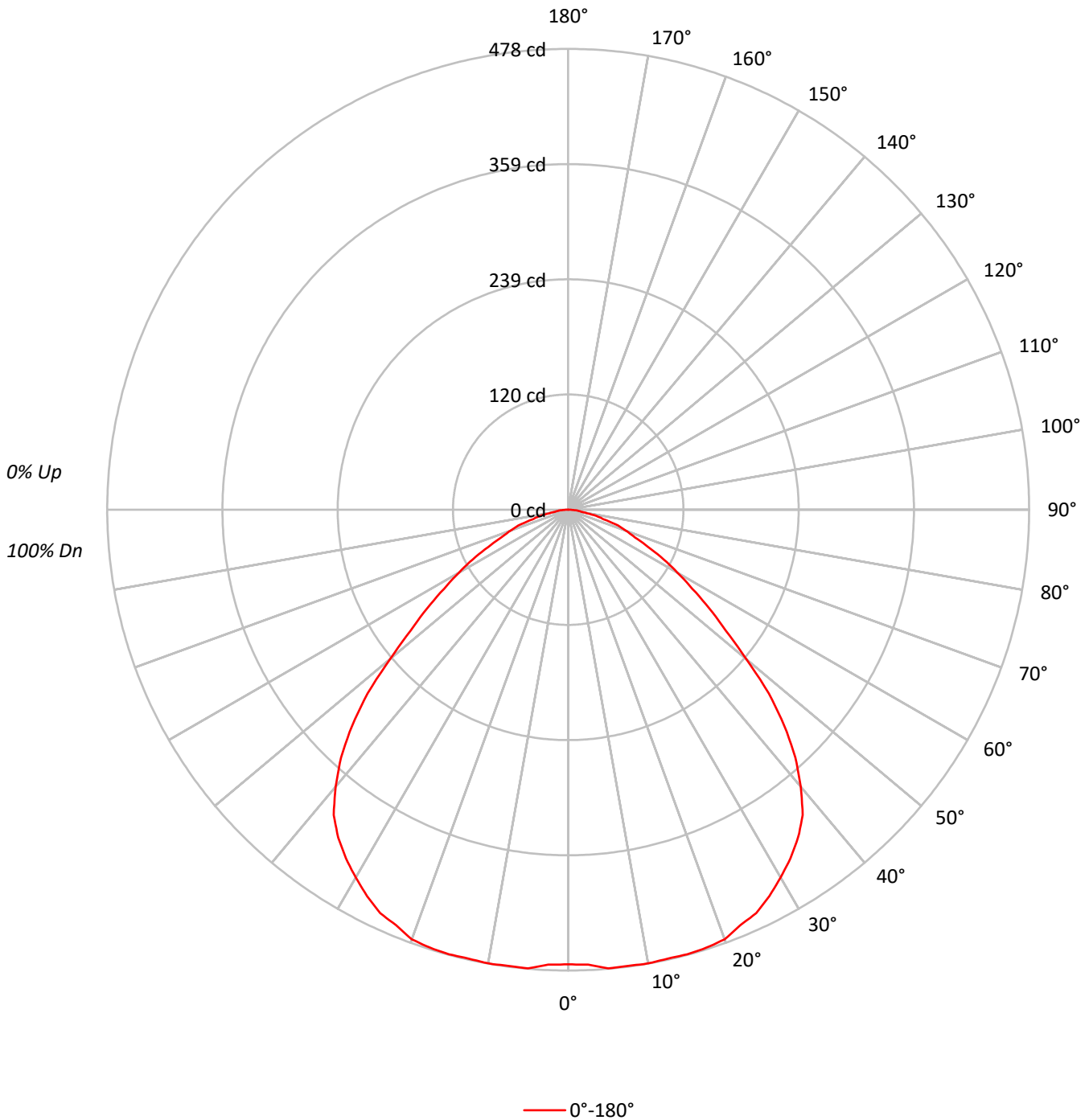
Input Watts (W): 10.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	14539
5°	14784
10°	14964
15°	15241
20°	15561
25°	15706
30°	15681
35°	15641
40°	15095
45°	13824
50°	11552
55°	9602
60°	8073
65°	6669
70°	5734
75°	4504
80°	3108
85°	3290



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.5	3.8
10°-20°	135.1	11.3
20°-30°	212.1	17.7
30°-40°	258.6	21.6
40°-50°	241.7	20.2
50°-60°	161.2	13.5
60°-70°	92.8	7.7
70°-80°	42.8	3.6
80°-90°	8.7	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°	392.7	32.8
0°-40°	651.3	54.3
0°-60°	1054.2	88.0
0°-90°	1198.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1198.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	472	
5°	478	45
15°	477	135
25°	462	212
35°	416	259
45°	317	242
55°	179	161
65°	91	93
75°	38	43
85°	9	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	471.5
2.5°	472.3
5°	477.6
7.5°	477.2
10°	477.9
12.5°	476.9
15°	477.4
17.5°	476.4
20°	474.2
22.5°	466.4
25°	461.6
27.5°	451.8
30°	440.4
32.5°	428.9
35°	415.5
37.5°	399.4
40°	375.0
42.5°	348.5
45°	317.0
47.5°	282.2
50°	240.8
52.5°	205.7
55°	178.6
57.5°	152.8
60°	130.9
62.5°	111.9
65°	91.4
67.5°	75.1
70°	63.6
72.5°	54.1
75°	37.8
77.5°	30.0
80°	17.5
82.5°	11.2
85°	9.3
87.5°	2.7
90°	0.0

(END OF REPORT)