

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: P210566

Luminaire Tested: **PR8S10D010 - PR8M12WDMB - 4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210566
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: PR8S10D010 - PR8M12WDMB - 4000K
Description: HALO 8" ROUND DOWNLIGHT, WIDE LENS, MATTE BLACK FINISH
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 951.1 lumens
Efficiency: N/A
Efficacy: 90.6 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

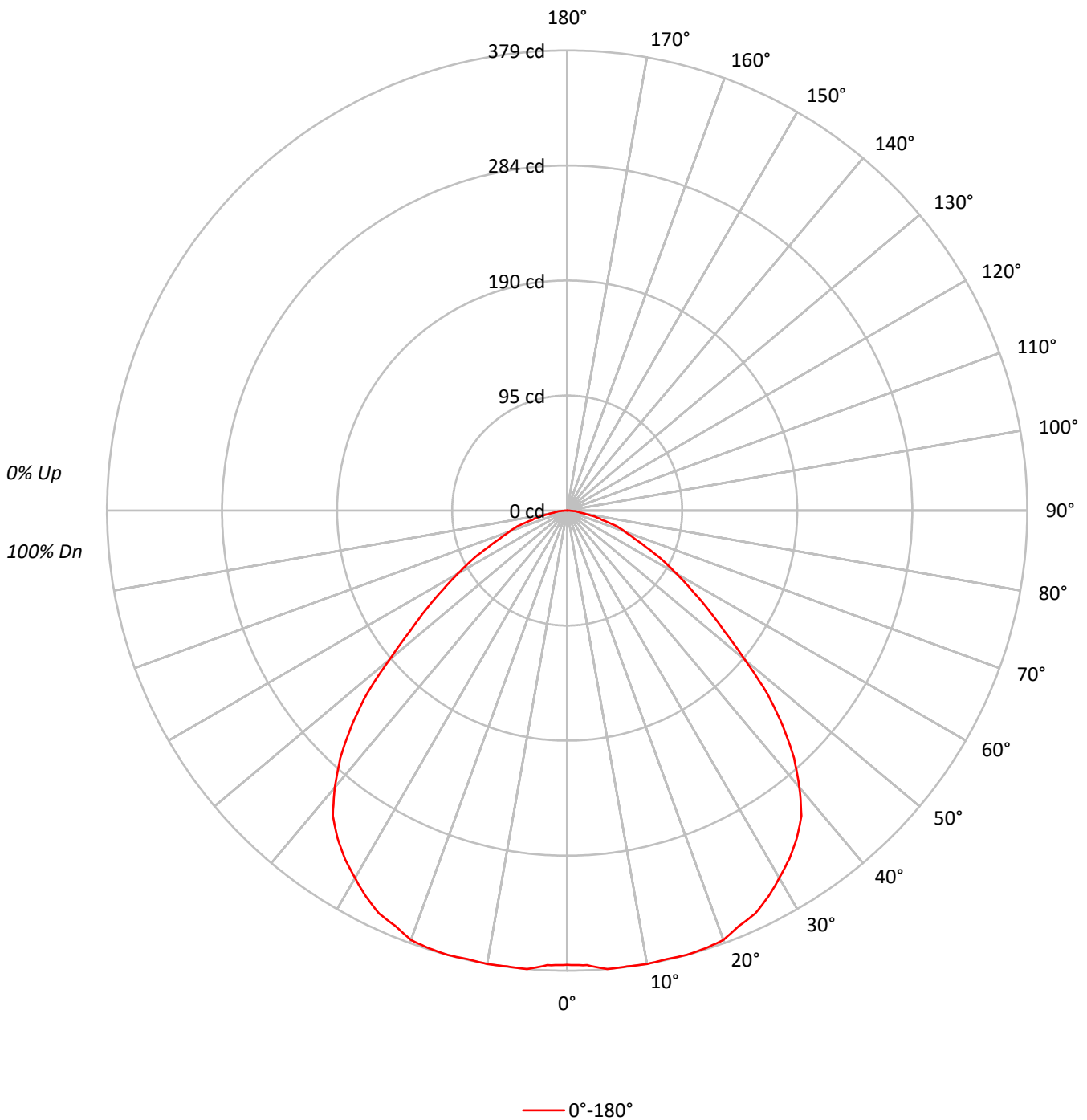
Input Watts (W): 10.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	11539
5°	11735
10°	11874
15°	12096
20°	12348
25°	12463
30°	12445
35°	12411
40°	11980
45°	10972
50°	9168
55°	7623
60°	6408
65°	5290
70°	4553
75°	3574
80°	2468
85°	2583



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.1	3.8
10°-20°	107.2	11.3
20°-30°	168.4	17.7
30°-40°	205.2	21.6
40°-50°	191.8	20.2
50°-60°	128.0	13.5
60°-70°	73.6	7.7
70°-80°	33.9	3.6
80°-90°	6.9	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°	311.7	32.8
0°-40°	516.9	54.3
0°-60°	836.7	88.0
0°-90°	951.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	951.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	374	
5°	379	36
15°	379	107
25°	366	168
35°	330	205
45°	252	192
55°	142	128
65°	72	74
75°	30	34
85°	7	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	374.2
2.5°	374.8
5°	379.1
7.5°	378.7
10°	379.2
12.5°	378.5
15°	378.9
17.5°	378.1
20°	376.3
22.5°	370.2
25°	366.3
27.5°	358.6
30°	349.5
32.5°	340.4
35°	329.7
37.5°	317.0
40°	297.6
42.5°	276.6
45°	251.6
47.5°	223.9
50°	191.1
52.5°	163.2
55°	141.8
57.5°	121.3
60°	103.9
62.5°	88.8
65°	72.5
67.5°	59.6
70°	50.5
72.5°	42.9
75°	30.0
77.5°	23.8
80°	13.9
82.5°	8.9
85°	7.3
87.5°	2.1
90°	0.0

(END OF REPORT)