

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: P210565

Luminaire Tested: **PR8S10D010 - PR8M12WDMB - 3500K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210565
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 - 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: 1013.4 lumens
Efficiency: N/A
Efficacy: 96.5 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

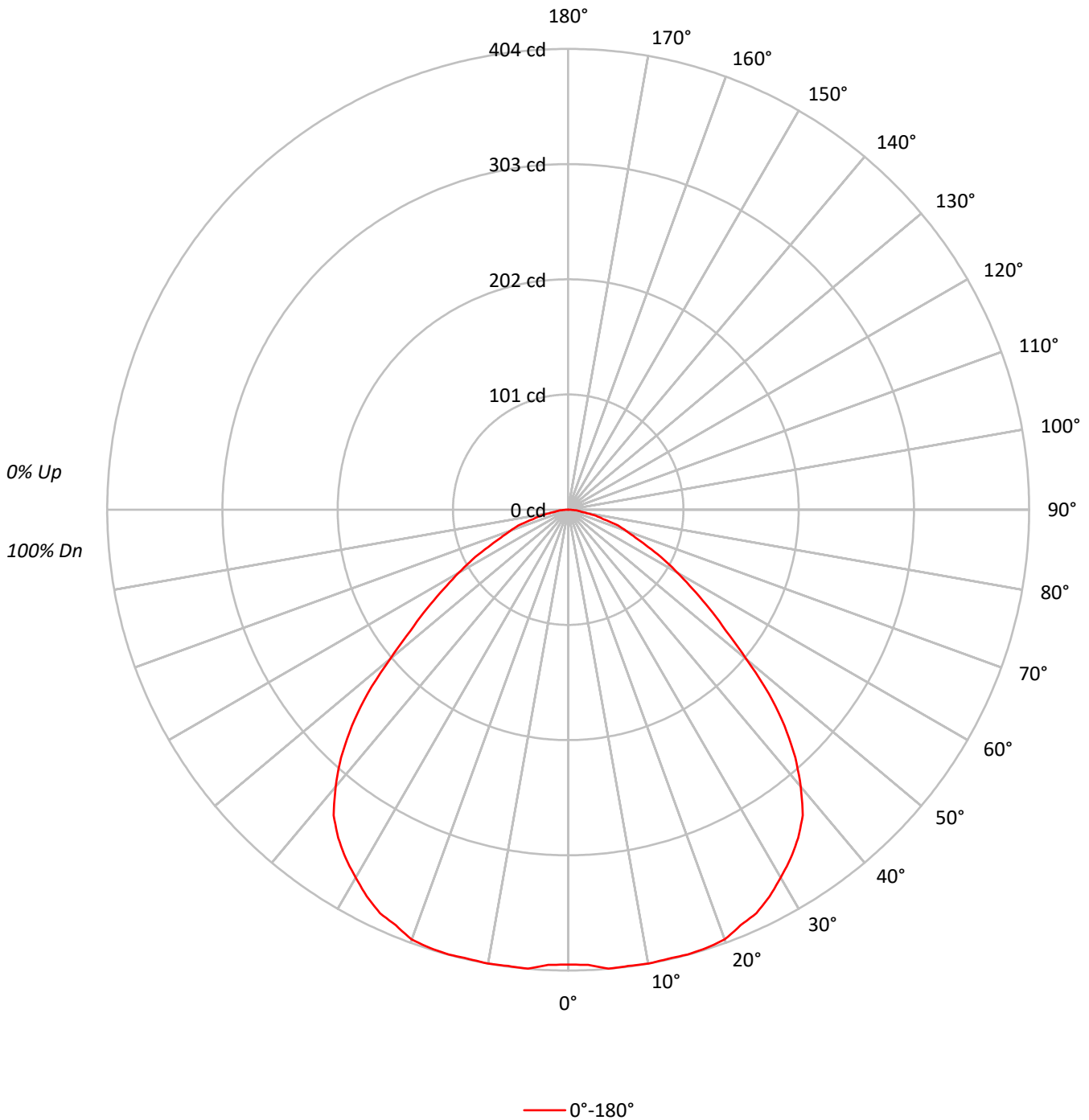
Input Watts (W): 10.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	65	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°	12294
5°	12502
10°	12653
15°	12888
20°	13159
25°	13280
30°	13260
35°	13224
40°	12765
45°	11692
50°	9767
55°	8118
60°	6827
65°	5640
70°	4851
75°	3801
80°	2628
85°	2760



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.5	3.8
10°-20°	114.2	11.3
20°-30°	179.4	17.7
30°-40°	218.7	21.6
40°-50°	204.4	20.2
50°-60°	136.3	13.5
60°-70°	78.5	7.7
70°-80°	36.1	3.6
80°-90°	7.3	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°	332.1	32.8
0°-40°	550.8	54.3
0°-60°	891.5	88.0
0°-90°	1013.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1013.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	399	
5°	404	38
15°	404	114
25°	390	179
35°	351	219
45°	268	204
55°	151	136
65°	77	78
75°	32	36
85°	8	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	398.7
2.5°	399.4
5°	403.9
7.5°	403.5
10°	404.1
12.5°	403.3
15°	403.7
17.5°	402.9
20°	401.0
22.5°	394.4
25°	390.3
27.5°	382.1
30°	372.4
32.5°	362.7
35°	351.3
37.5°	337.7
40°	317.1
42.5°	294.7
45°	268.1
47.5°	238.6
50°	203.6
52.5°	173.9
55°	151.0
57.5°	129.2
60°	110.7
62.5°	94.6
65°	77.3
67.5°	63.5
70°	53.8
72.5°	45.7
75°	31.9
77.5°	25.3
80°	14.8
82.5°	9.5
85°	7.8
87.5°	2.3
90°	0.0

(END OF REPORT)