

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: P210381

Luminaire Tested: **PR8R15D010 - PR8M12WDMB - 4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210381
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: PR8R15D010 - 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: 1526.7 lumens
Efficiency: N/A
Efficacy: 101.8 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

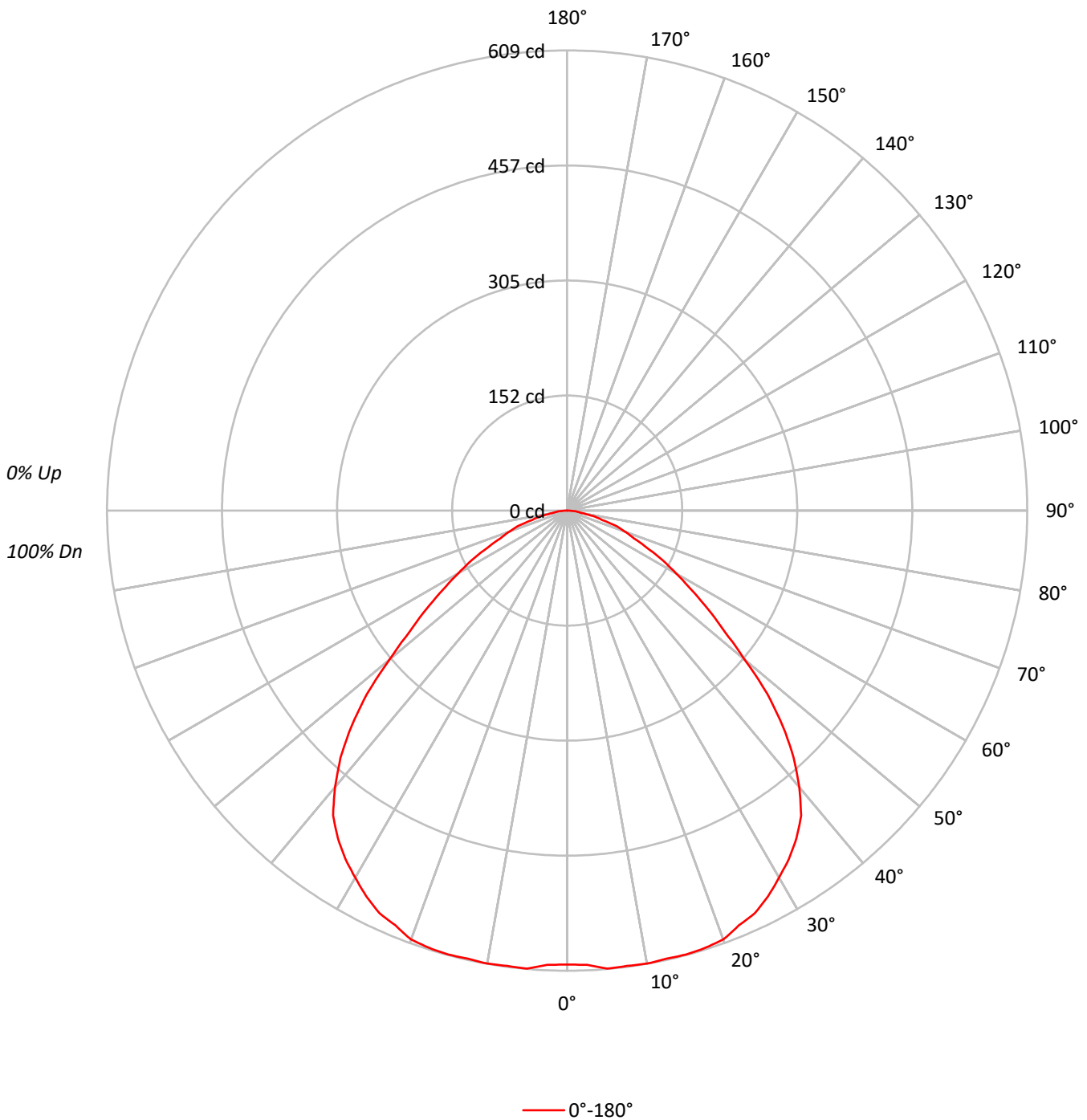
Input Watts (W): 15
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	18523
5°	18836
10°	19063
15°	19416
20°	19824
25°	20006
30°	19975
35°	19925
40°	19233
45°	17614
50°	14713
55°	12236
60°	10281
65°	8493
70°	7303
75°	5731
80°	3978
85°	4175



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.0	3.8
10°-20°	172.1	11.3
20°-30°	270.3	17.7
30°-40°	329.4	21.6
40°-50°	307.9	20.2
50°-60°	205.4	13.5
60°-70°	118.1	7.7
70°-80°	54.5	3.6
80°-90°	11.1	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°	500.3	32.8
0°-40°	829.8	54.3
0°-60°	1343.0	88.0
0°-90°	1526.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1526.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	601	
5°	608	58
15°	608	172
25°	588	270
35°	529	329
45°	404	308
55°	228	205
65°	116	118
75°	48	54
85°	12	11
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	600.7
2.5°	601.6
5°	608.5
7.5°	607.8
10°	608.8
12.5°	607.5
15°	608.2
17.5°	606.9
20°	604.1
22.5°	594.2
25°	588.0
27.5°	575.6
30°	561.0
32.5°	546.4
35°	529.3
37.5°	508.8
40°	477.8
42.5°	443.9
45°	403.9
47.5°	359.5
50°	306.7
52.5°	262.0
55°	227.6
57.5°	194.6
60°	166.7
62.5°	142.5
65°	116.4
67.5°	95.6
70°	81.0
72.5°	68.9
75°	48.1
77.5°	38.2
80°	22.4
82.5°	14.3
85°	11.8
87.5°	3.4
90°	0.0

(END OF REPORT)