

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: P210571

Luminaire Tested: **PR8S15D010 - PR8M12WDMB - 4000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P210571  
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: PR8S15D010 - 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: 1291.0 lumens  
Efficiency: N/A  
Efficacy: 86.1 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

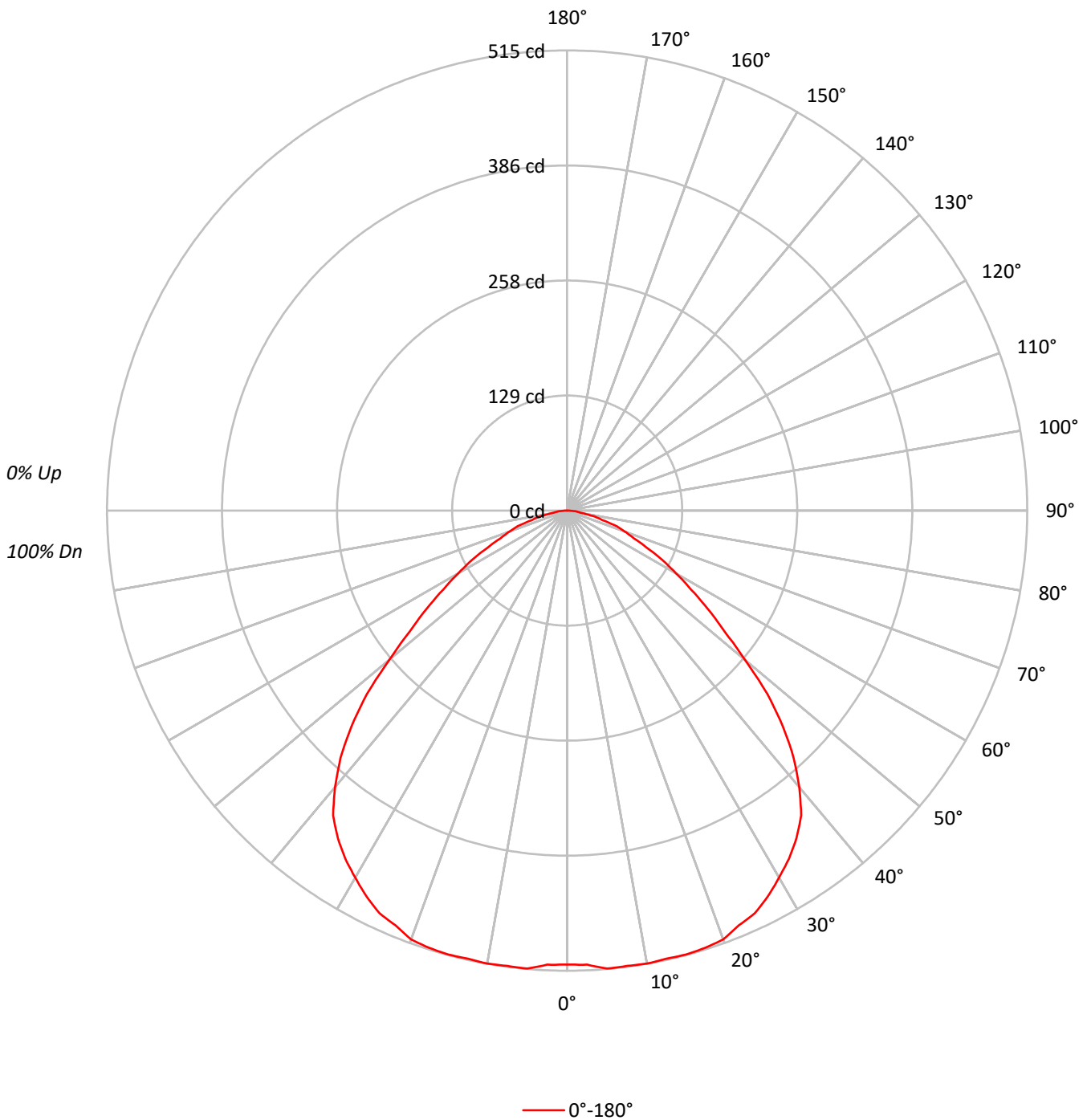
Input Watts (W): 15  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	15665
5°	15926
10°	16119
15°	16419
20°	16762
25°	16917
30°	16892
35°	16850
40°	16263
45°	14893
50°	12444
55°	10344
60°	8696
65°	7180
70°	6176
75°	4849
80°	3356
85°	3538



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.0	3.8
10°-20°	145.5	11.3
20°-30°	228.5	17.7
30°-40°	278.6	21.6
40°-50°	260.4	20.2
50°-60°	173.7	13.5
60°-70°	99.9	7.7
70°-80°	46.1	3.6
80°-90°	9.4	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°	423.1	32.8
0°-40°	701.6	54.3
0°-60°	1135.7	88.0
0°-90°	1291.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1291.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	508	
5°	514	49
15°	514	146
25°	497	229
35°	448	279
45°	342	260
55°	192	174
65°	98	100
75°	41	46
85°	10	9
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	508.0
2.5°	508.7
5°	514.5
7.5°	514.0
10°	514.8
12.5°	513.7
15°	514.3
17.5°	513.2
20°	510.8
22.5°	502.4
25°	497.2
27.5°	486.7
30°	474.4
32.5°	462.0
35°	447.6
37.5°	430.3
40°	404.0
42.5°	375.4
45°	341.5
47.5°	304.0
50°	259.4
52.5°	221.6
55°	192.4
57.5°	164.6
60°	141.0
62.5°	120.5
65°	98.4
67.5°	80.9
70°	68.5
72.5°	58.3
75°	40.7
77.5°	32.3
80°	18.9
82.5°	12.1
85°	10.0
87.5°	2.9
90°	0.0

(END OF REPORT)