

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: P210199

Luminaire Tested: **PR830D010 - PR8M34WDMB - 3000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P210199  
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: PR830D010 - PR8M34WDMB - 3000K  
Description: HALO 8" ROUND DOWNLIGHT, WIDE LENS, MATTE BLACK FINISH  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2901.4 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

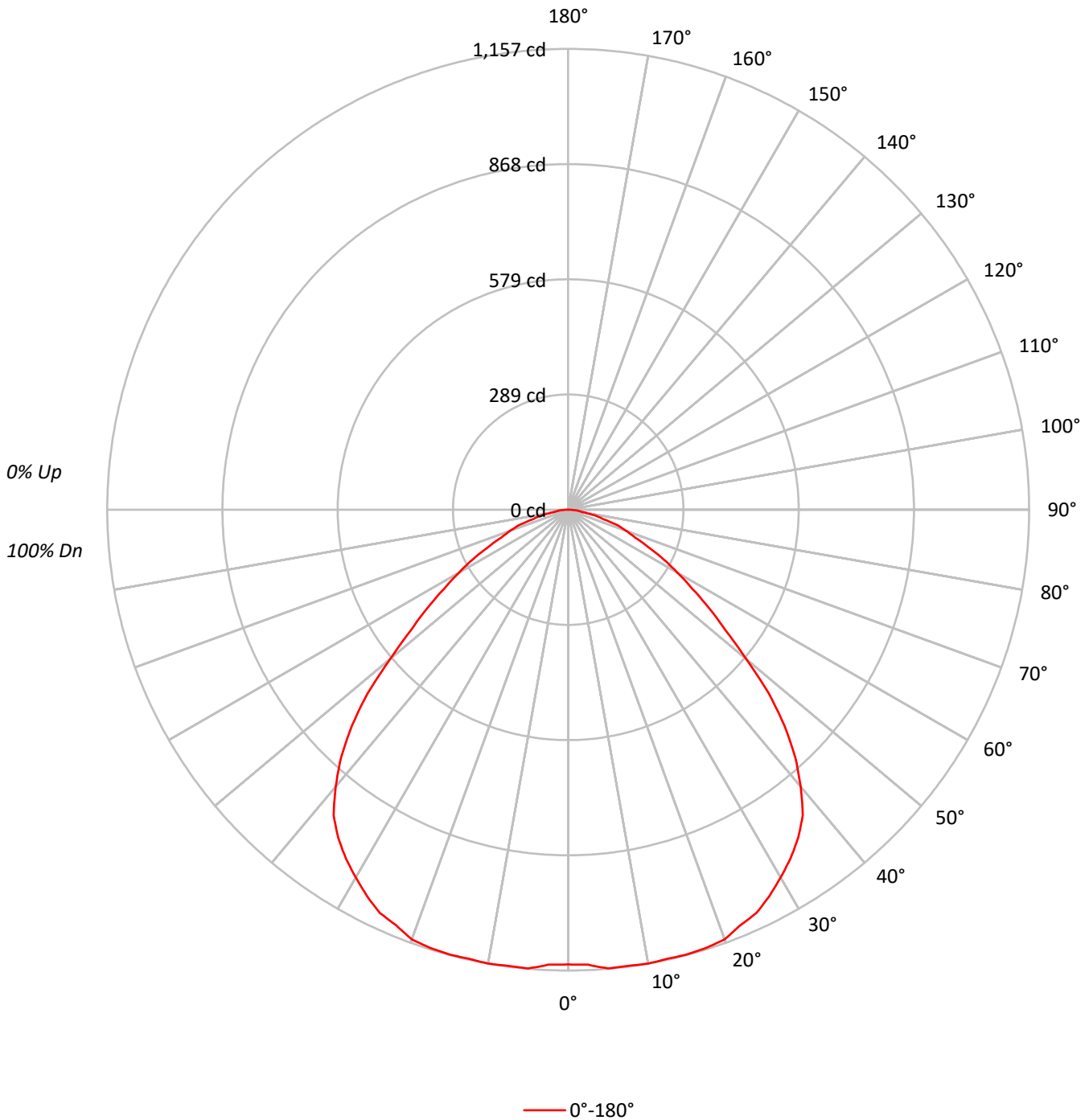
Input Watts (W): 28.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	35203
5°	35792
10°	36225
15°	36895
20°	37675
25°	38019
30°	37960
35°	37866
40°	36551
45°	33470
50°	27963
55°	23246
60°	19538
65°	16140
70°	13885
75°	10890
80°	7547
85°	7925



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.2	3.8
10°-20°	327.0	11.3
20°-30°	513.6	17.7
30°-40°	626.1	21.6
40°-50°	585.1	20.2
50°-60°	390.3	13.5
60°-70°	224.5	7.7
70°-80°	103.6	3.6
80°-90°	21.0	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°	950.8	32.8
0°-40°	1576.9	54.3
0°-60°	2552.3	88.0
0°-90°	2901.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2901.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1142	
5°	1156	110
15°	1156	327
25°	1117	514
35°	1006	626
45°	768	585
55°	432	390
65°	221	225
75°	91	104
85°	22	21
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1141.6
2.5°	1143.4
5°	1156.3
7.5°	1155.2
10°	1156.9
12.5°	1154.6
15°	1155.7
17.5°	1153.4
20°	1148.1
22.5°	1129.2
25°	1117.4
27.5°	1093.8
30°	1066.1
32.5°	1038.3
35°	1005.9
37.5°	967.0
40°	908.0
42.5°	843.7
45°	767.5
47.5°	683.2
50°	582.9
52.5°	497.9
55°	432.4
57.5°	369.9
60°	316.8
62.5°	270.8
65°	221.2
67.5°	181.7
70°	154.0
72.5°	131.0
75°	91.4
77.5°	72.6
80°	42.5
82.5°	27.1
85°	22.4
87.5°	6.5
90°	0.0

(END OF REPORT)