

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: P210201

Luminaire Tested: **PR830D010 - PR8M34WDMB - 4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210201
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 - 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: 3044.7 lumens
Efficiency: N/A
Efficacy: 106.8 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

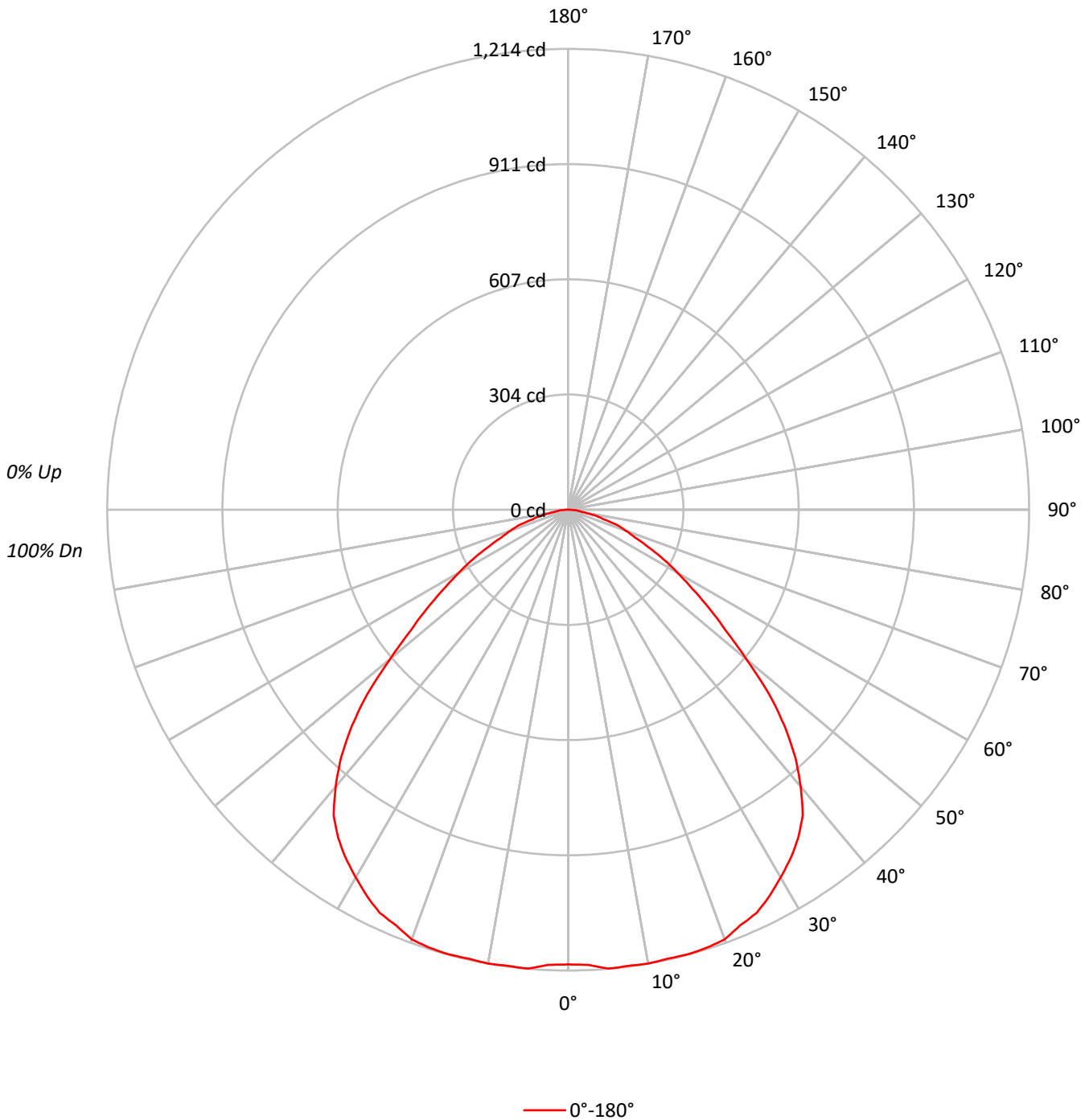
Input Watts (W): 28.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	36942
5°	37563
10°	38016
15°	38721
20°	39536
25°	39897
30°	39833
35°	39737
40°	38354
45°	35127
50°	29345
55°	24397
60°	20506
65°	16942
70°	14570
75°	11438
80°	7920
85°	8314



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.6	3.8
10°-20°	343.2	11.3
20°-30°	539.0	17.7
30°-40°	657.0	21.6
40°-50°	614.0	20.2
50°-60°	409.6	13.5
60°-70°	235.7	7.7
70°-80°	108.7	3.6
80°-90°	22.1	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
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0°-30°	997.8	32.8
0°-40°	1654.7	54.3
0°-60°	2678.3	88.0
0°-90°	3044.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3044.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1198	
5°	1214	116
15°	1213	343
25°	1173	539
35°	1056	657
45°	806	614
55°	454	410
65°	232	236
75°	96	109
85°	24	22
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1198.0
2.5°	1199.9
5°	1213.5
7.5°	1212.2
10°	1214.1
12.5°	1211.6
15°	1212.9
17.5°	1210.4
20°	1204.8
22.5°	1185.0
25°	1172.6
27.5°	1147.8
30°	1118.7
32.5°	1089.6
35°	1055.6
37.5°	1014.7
40°	952.8
42.5°	885.3
45°	805.5
47.5°	716.9
50°	611.7
52.5°	522.5
55°	453.8
57.5°	388.2
60°	332.5
62.5°	284.2
65°	232.2
67.5°	190.7
70°	161.6
72.5°	137.4
75°	96.0
77.5°	76.2
80°	44.6
82.5°	28.5
85°	23.5
87.5°	6.8
90°	0.0

(END OF REPORT)