

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: P210307

Luminaire Tested: **PR830D010 - PR8M34WDMB - 3500K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210307
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 - 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: 3273.7 lumens
Efficiency: N/A
Efficacy: 114.9 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

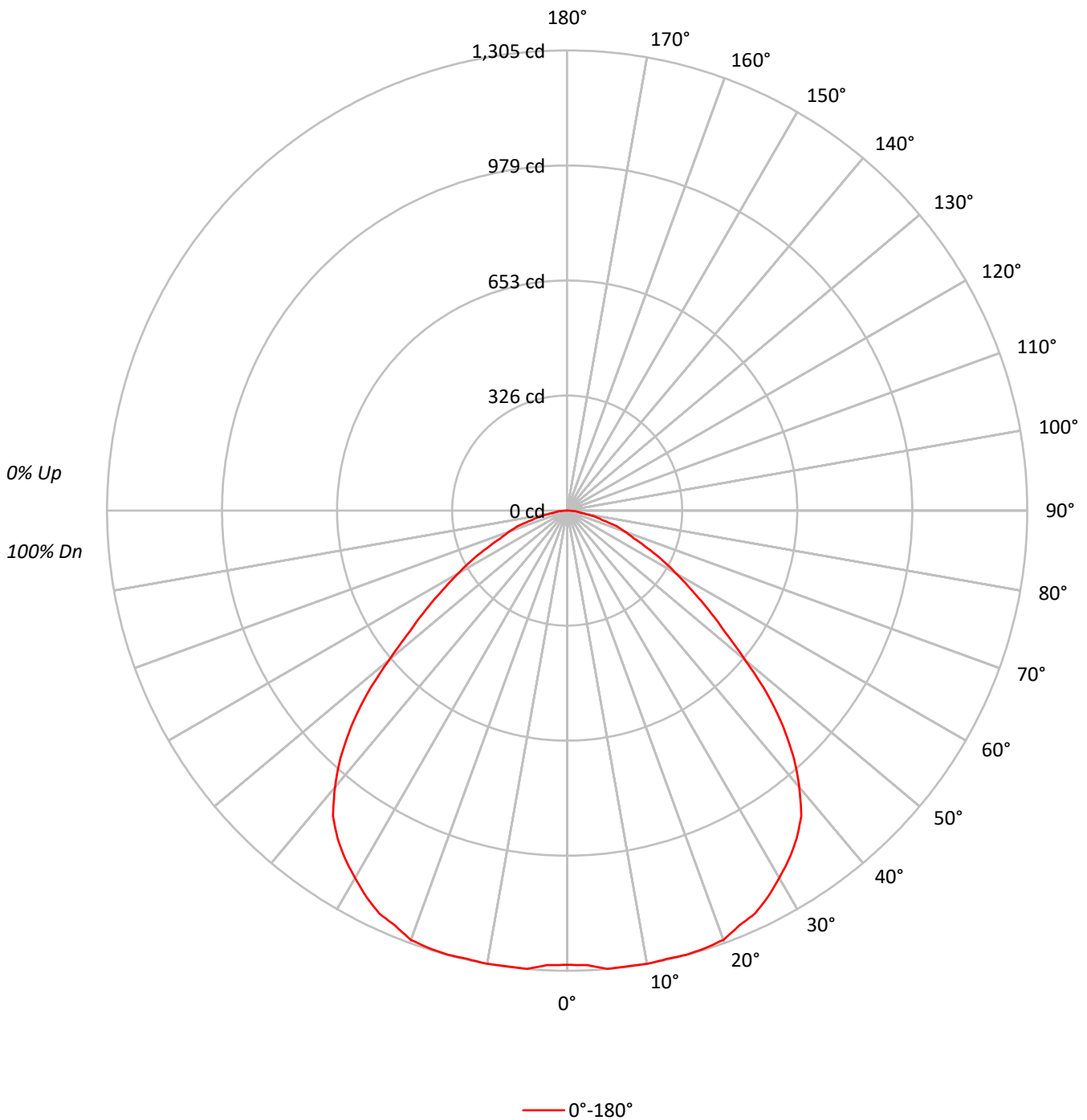
Input Watts (W): 28.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	39720
5°	40386
10°	40875
15°	41632
20°	42509
25°	42898
30°	42831
35°	42726
40°	41240
45°	37766
50°	31552
55°	26230
60°	22048
65°	18212
70°	15661
75°	12295
80°	8506
85°	8951



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.3	3.8
10°-20°	369.0	11.3
20°-30°	579.5	17.7
30°-40°	706.4	21.6
40°-50°	660.2	20.2
50°-60°	440.4	13.5
60°-70°	253.3	7.7
70°-80°	116.9	3.6
80°-90°	23.7	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°	1072.8	32.8
0°-40°	1779.2	54.3
0°-60°	2879.8	88.0
0°-90°	3273.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3273.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1288	
5°	1305	124
15°	1304	369
25°	1261	580
35°	1135	706
45°	866	660
55°	488	440
65°	250	253
75°	103	117
85°	25	24
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1288.1
2.5°	1290.1
5°	1304.7
7.5°	1303.4
10°	1305.4
12.5°	1302.7
15°	1304.1
17.5°	1301.4
20°	1295.4
22.5°	1274.1
25°	1260.8
27.5°	1234.2
30°	1202.9
32.5°	1171.6
35°	1135.0
37.5°	1091.0
40°	1024.5
42.5°	951.9
45°	866.0
47.5°	770.8
50°	657.7
52.5°	561.8
55°	487.9
57.5°	417.4
60°	357.5
62.5°	305.5
65°	249.6
67.5°	205.0
70°	173.7
72.5°	147.8
75°	103.2
77.5°	81.9
80°	47.9
82.5°	30.6
85°	25.3
87.5°	7.3
90°	0.0

(END OF REPORT)