

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: P210655

Luminaire Tested: **PR8S40D010 - PR8M34WDMB - 3500K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210655
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: PR8S40D010 - 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: 3782.8 lumens
Efficiency: N/A
Efficacy: 87.0 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

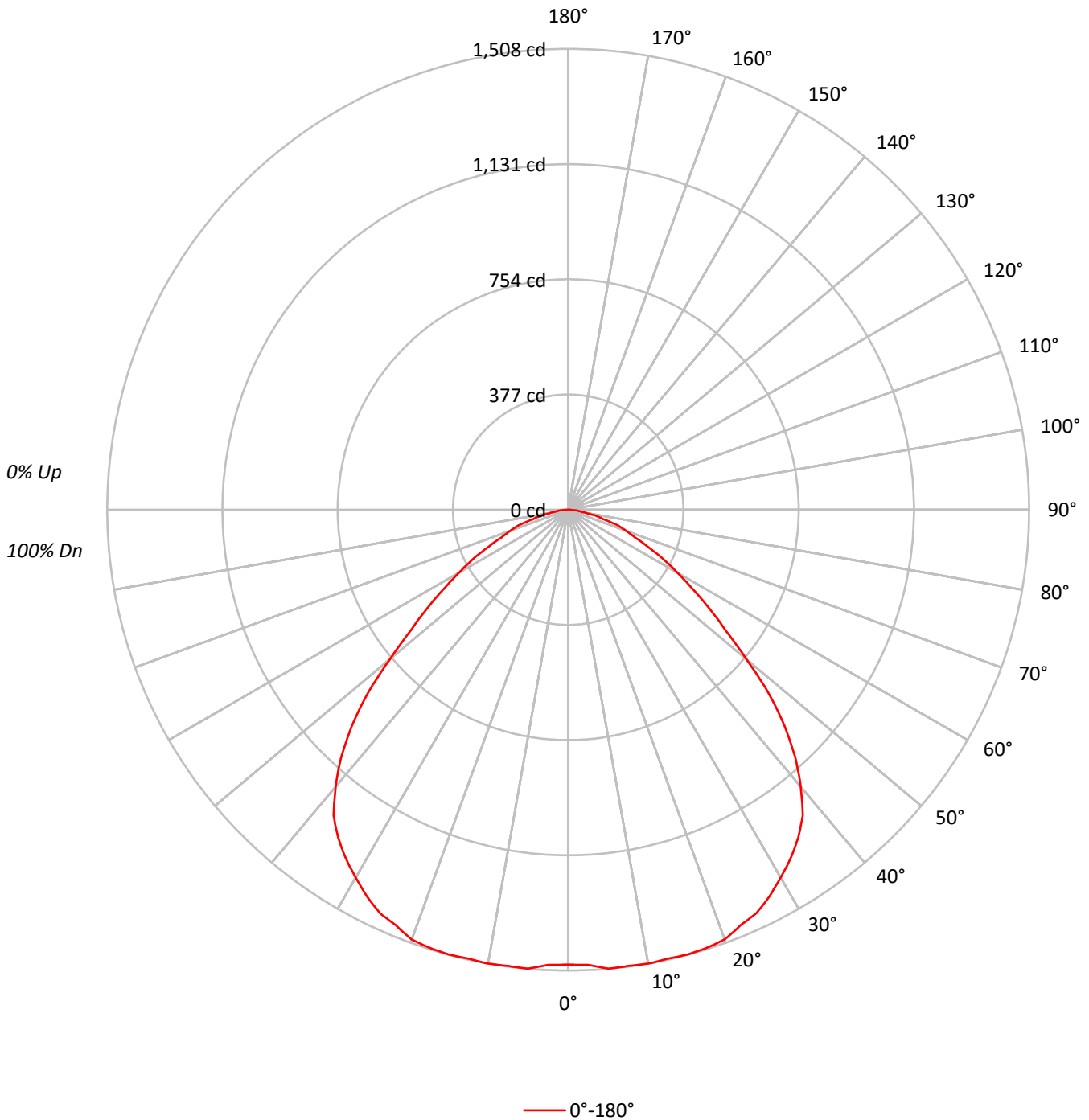
Input Watts (W): 43.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	45897
5°	46666
10°	47231
15°	48103
20°	49118
25°	49566
30°	49490
35°	49370
40°	47653
45°	43640
50°	36459
55°	30311
60°	25477
65°	21043
70°	18104
75°	14202
80°	9838
85°	10331



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.6	3.8
10°-20°	426.4	11.3
20°-30°	669.6	17.7
30°-40°	816.3	21.6
40°-50°	762.9	20.2
50°-60°	508.9	13.5
60°-70°	292.8	7.7
70°-80°	135.0	3.6
80°-90°	27.4	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°	1239.6	32.8
0°-40°	2055.9	54.3
0°-60°	3327.6	88.0
0°-90°	3782.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3782.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1488	
5°	1508	144
15°	1507	426
25°	1457	670
35°	1312	816
45°	1001	763
55°	564	509
65°	288	293
75°	119	135
85°	29	27
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1488.4
2.5°	1490.7
5°	1507.6
7.5°	1506.1
10°	1508.4
12.5°	1505.3
15°	1506.8
17.5°	1503.8
20°	1496.8
22.5°	1472.2
25°	1456.8
27.5°	1426.1
30°	1389.9
32.5°	1353.8
35°	1311.5
37.5°	1260.7
40°	1183.8
42.5°	1099.9
45°	1000.7
47.5°	890.7
50°	760.0
52.5°	649.2
55°	563.8
57.5°	482.3
60°	413.1
62.5°	353.1
65°	288.4
67.5°	236.9
70°	200.8
72.5°	170.8
75°	119.2
77.5°	94.6
80°	55.4
82.5°	35.4
85°	29.2
87.5°	8.5
90°	0.0

(END OF REPORT)