

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: P210464

Luminaire Tested: **PR8R40D010 - PR8M34WDMB - 3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210464
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: PR8R40D010 - 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: 3964.7 lumens
Efficiency: N/A
Efficacy: 91.1 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

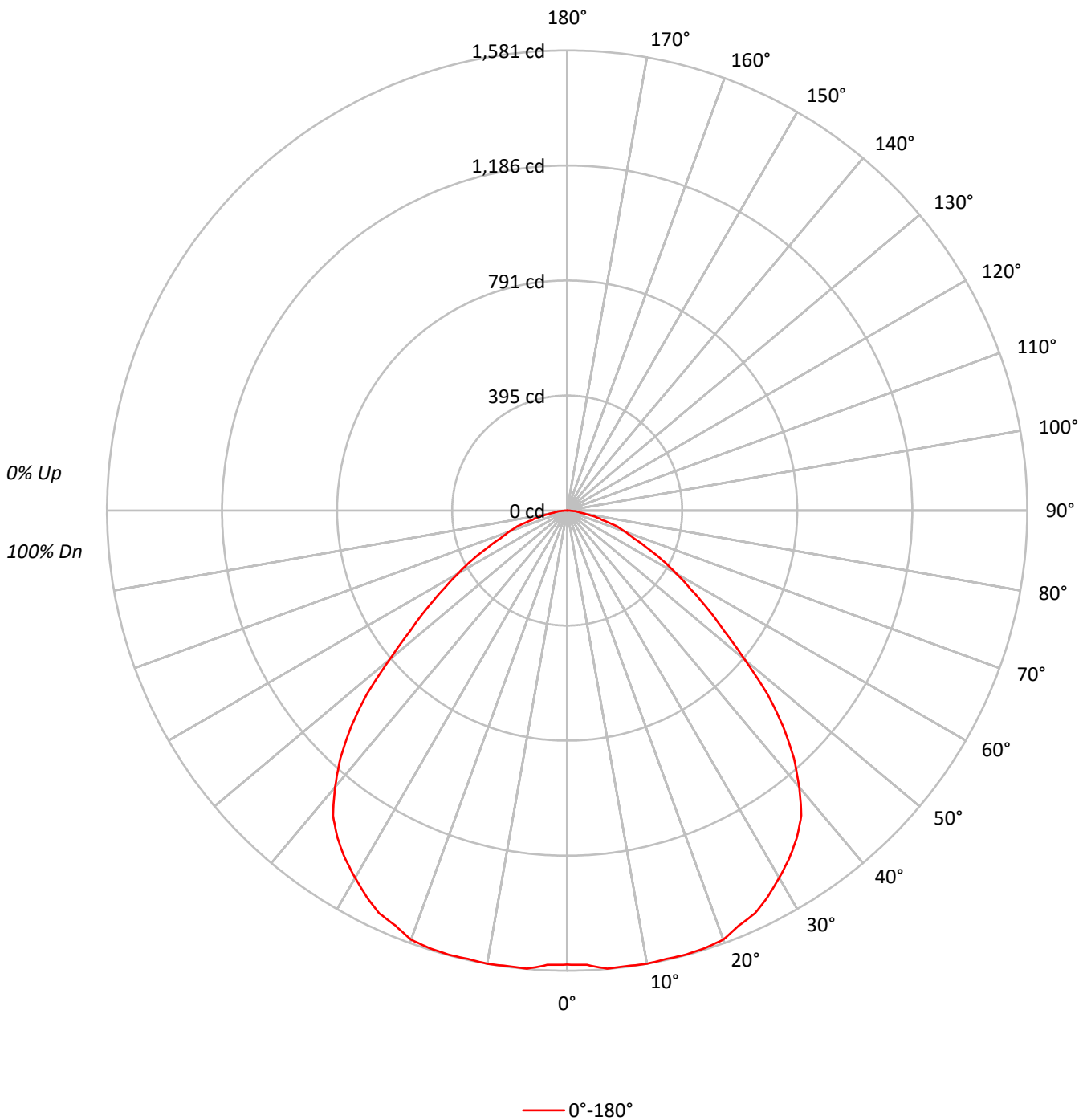
Input Watts (W): 43.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	48105
5°	48911
10°	49501
15°	50418
20°	51481
25°	51951
30°	51872
35°	51742
40°	49943
45°	45737
50°	38210
55°	31768
60°	26698
65°	22057
70°	18970
75°	14893
80°	10300
85°	10826



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.5	3.8
10°-20°	446.9	11.3
20°-30°	701.8	17.7
30°-40°	855.5	21.6
40°-50°	799.6	20.2
50°-60°	533.3	13.5
60°-70°	306.8	7.7
70°-80°	141.5	3.6
80°-90°	28.7	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°	1299.2	32.8
0°-40°	2154.7	54.3
0°-60°	3487.6	88.0
0°-90°	3964.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3964.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1560	
5°	1580	151
15°	1579	447
25°	1527	702
35°	1374	855
45°	1049	800
55°	591	533
65°	302	307
75°	125	142
85°	31	29
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1560.0
2.5°	1562.4
5°	1580.1
7.5°	1578.5
10°	1580.9
12.5°	1577.7
15°	1579.3
17.5°	1576.1
20°	1568.8
22.5°	1543.0
25°	1526.9
27.5°	1494.7
30°	1456.8
32.5°	1418.9
35°	1374.5
37.5°	1321.3
40°	1240.7
42.5°	1152.8
45°	1048.8
47.5°	933.6
50°	796.5
52.5°	680.4
55°	590.9
57.5°	505.5
60°	432.9
62.5°	370.0
65°	302.3
67.5°	248.3
70°	210.4
72.5°	179.0
75°	125.0
77.5°	99.2
80°	58.0
82.5°	37.1
85°	30.6
87.5°	8.9
90°	0.0

(END OF REPORT)