

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: PORTFOLIO

Report Number: P246580

Luminaire Tested: **LD8B40D010 ER8B40935 8LBW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246580  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-48)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B40D010 ER8B40935 8LBW0MW  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 3500 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3825.0 lumens  
Efficiency: N/A  
Efficacy: 93.5 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

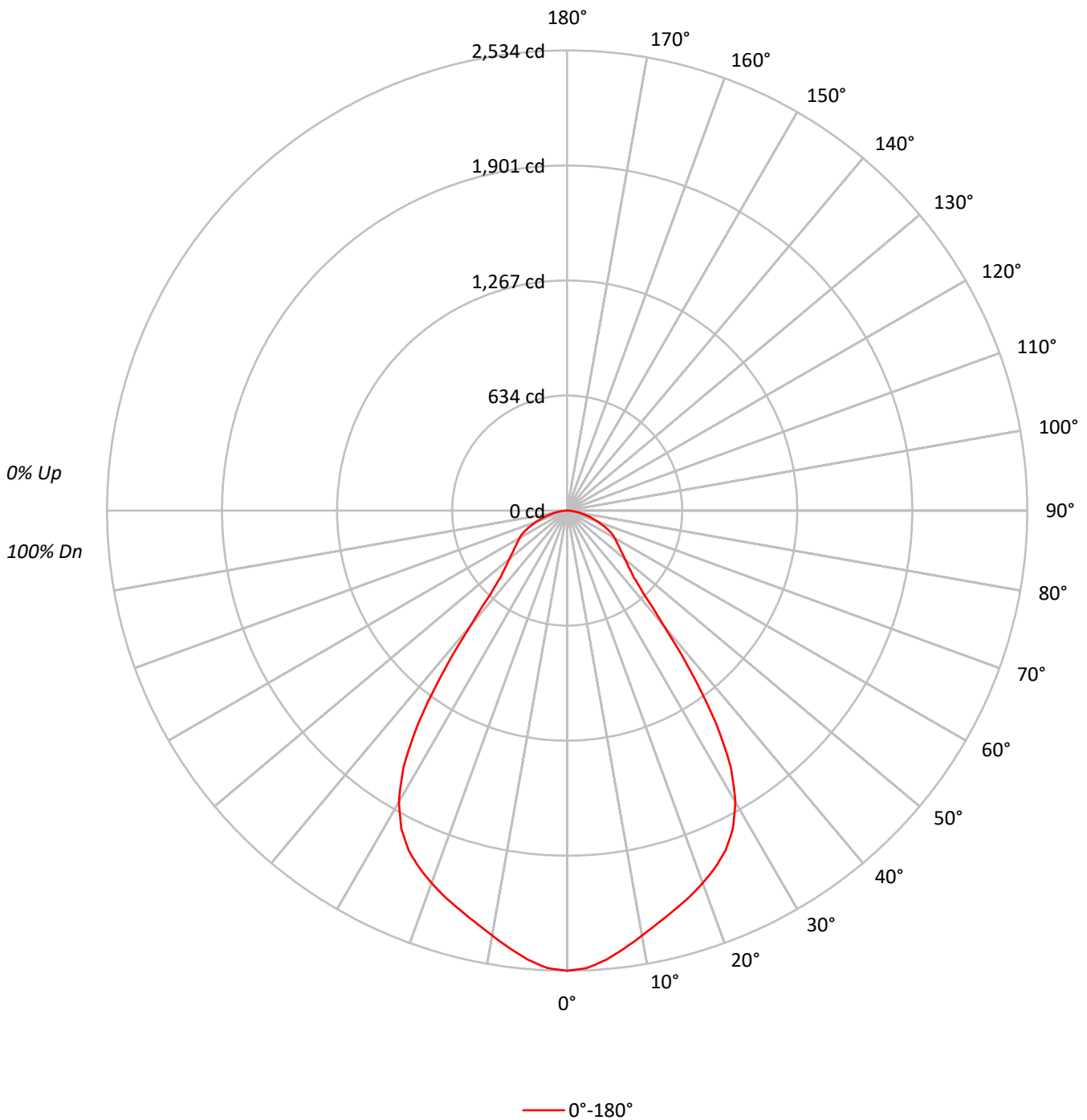
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P246580

CATALOG NUMBER: LD8B40D010 ER8B40935 8LBW0MW

### Luminous Intensity Polar Plot





TEST NUMBER: P246580

CATALOG NUMBER: LD8B40D010 ER8B40935 8LBW0MW

**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	111	107	104	101	109	105	102	99	101	99	96		97	95	93		94	92	91	89
2	103	97	91	87	101	95	90	86	92	87	84		88	85	82		86	83	80	78
3	96	88	81	76	94	86	80	75	83	78	74		81	76	73		78	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66		74	69	65		72	68	64	62
5	84	73	66	60	82	72	65	60	70	64	59		68	63	59		67	62	58	56
6	79	67	60	54	77	66	59	54	65	58	54		63	58	53		62	57	53	51
7	74	62	55	49	72	61	54	49	60	54	49		59	53	49		57	52	48	47
8	69	58	50	45	68	57	50	45	56	50	45		55	49	45		54	48	45	43
9	65	54	47	42	64	53	46	42	52	46	41		51	45	41		50	45	41	40
10	62	50	43	39	61	50	43	39	49	43	38		48	42	38		47	42	38	37

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	78148
5°	76834
10°	74416
15°	72694
20°	71659
25°	70253
30°	65961
35°	53842
40°	33354
45°	22590
50°	19904
55°	18784
60°	18631
65°	18059
70°	16193
75°	14023
80°	11845
85°	9447



TEST NUMBER: P246580

CATALOG NUMBER: LD8B40D010 ER8B40935 8LBW0MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	233.5	6.1
10°-20°	643.1	16.8
20°-30°	943.2	24.7
30°-40°	862.1	22.5
40°-50°	426.8	11.2
50°-60°	315.6	8.3
60°-70°	242.6	6.3
70°-80°	126.5	3.3
80°-90°	31.5	0.8
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°	1819.8	47.6
0°-40°	2681.9	70.1
0°-60°	3424.4	89.5
0°-90°	3825.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3825.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2534	
5°	2482	233
15°	2277	643
25°	2065	943
35°	1430	862
45°	518	427
55°	349	316
65°	248	243
75°	118	126
85°	27	32
90°	0	



TEST NUMBER: P246580

CATALOG NUMBER: LD8B40D010 ER8B40935 8LBW0MW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2534.3
2.5°	2521.0
5°	2482.2
7.5°	2430.0
10°	2376.6
12.5°	2324.5
15°	2277.1
17.5°	2232.2
20°	2183.7
22.5°	2129.1
25°	2064.8
27.5°	1976.3
30°	1852.5
32.5°	1679.0
35°	1430.3
37.5°	1122.2
40°	828.6
42.5°	627.2
45°	518.0
47.5°	458.6
50°	414.9
52.5°	379.7
55°	349.4
57.5°	323.9
60°	302.1
62.5°	279.0
65°	247.5
67.5°	213.5
70°	179.6
72.5°	148.0
75°	117.7
77.5°	91.0
80°	66.7
82.5°	46.1
85°	26.7
87.5°	9.7
90°	0.0

(END OF REPORT)