

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: P245266

Luminaire Tested: **LD8B40D010 ER8B40850 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245266
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201704)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B40D010 ER8B40850 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
80 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4525.0 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

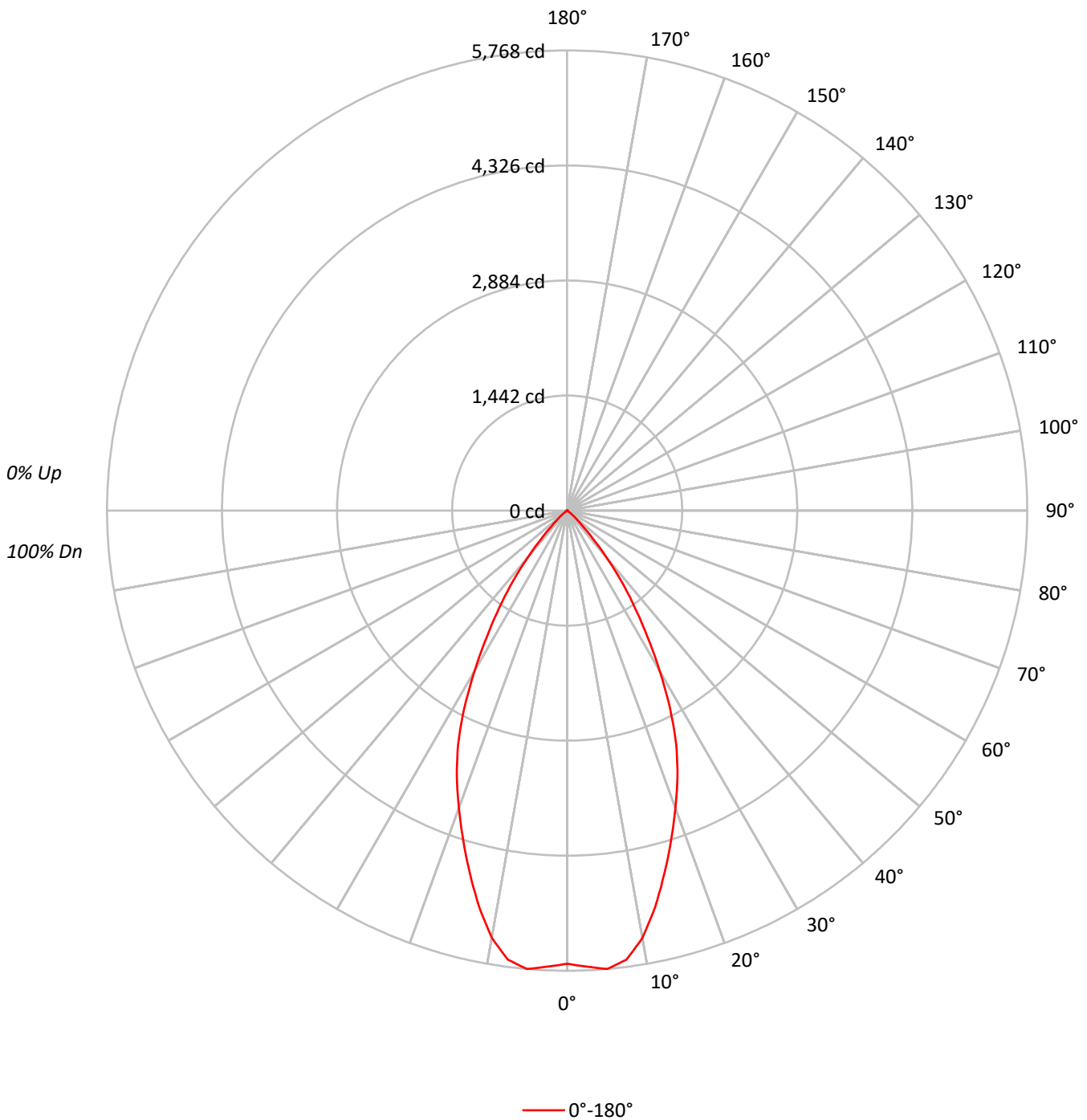
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P245266

CATALOG NUMBER: LD8B40D010 ER8B40850 8LBM0WH

Luminous Intensity Polar Plot





TEST NUMBER: P245266

CATALOG NUMBER: LD8B40D010 ER8B40850 8LBM0WH

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	114	111	109	106	111	109	107	105	105	103	101		101	100	98		98	97	96	94
2	108	104	100	96	106	102	98	95	99	96	93		96	93	91		93	91	89	88
3	103	97	92	88	101	95	91	87	93	89	86		90	87	85		88	86	83	82
4	98	91	85	81	96	89	84	81	87	83	80		85	82	79		83	80	78	76
5	93	85	79	75	92	84	79	75	82	78	74		81	77	73		79	76	73	71
6	89	80	74	70	87	79	74	70	78	73	69		76	72	69		75	71	68	67
7	84	75	69	65	83	75	69	65	73	68	65		72	68	64		71	67	64	63
8	80	71	65	61	79	71	65	61	69	64	61		68	64	61		67	63	60	59
9	77	67	61	58	76	67	61	57	66	61	57		65	60	57		64	60	57	56
10	73	64	58	54	72	63	58	54	62	58	54		62	57	54		61	57	54	53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	175163
5°	178528
10°	170212
15°	150295
20°	130244
25°	110054
30°	82704
35°	55378
40°	31012
45°	12459
50°	4313
55°	1194
60°	678
65°	591
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P245266

CATALOG NUMBER: LD8B40D010 ER8B40850 8LBM0WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	539.6	11.9
10°-20°	1313.2	29.0
20°-30°	1457.2	32.2
30°-40°	923.2	20.4
40°-50°	256.2	5.7
50°-60°	29.3	0.6
60°-70°	5.8	0.1
70°-80°	0.6	0.0
80°-90°	0.0	0.0
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°	3310.0	73.1
0°-40°	4233.2	93.5
0°-60°	4518.6	99.9
0°-90°	4525.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4525.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5680	
5°	5768	540
15°	4708	1313
25°	3235	1457
35°	1471	923
45°	286	256
55°	22	29
65°	8	6
75°	0	1
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	0



TEST NUMBER: P245266

CATALOG NUMBER: LD8B40D010 ER8B40850 8LBM0WH

CANDELA DISTRIBUTION (FULL):

0°	
0°	5680.4
2.5°	5722.4
5°	5767.5
7.5°	5677.5
10°	5436.0
12.5°	5091.6
15°	4707.9
17.5°	4331.2
20°	3969.0
22.5°	3613.6
25°	3234.6
27.5°	2791.3
30°	2322.7
32.5°	1868.9
35°	1471.1
37.5°	1111.6
40°	770.4
42.5°	479.1
45°	285.7
47.5°	164.3
50°	89.9
52.5°	44.0
55°	22.2
57.5°	16.7
60°	11.0
62.5°	5.8
65°	8.1
67.5°	4.0
70°	0.0
72.5°	1.2
75°	0.0
77.5°	1.2
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.0
110°	0.0



TEST NUMBER: P245266

CATALOG NUMBER: LD8B40D010 ER8B40850 8LBM0WH

CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)