

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: P244762

Luminaire Tested: **LSR8B40D010 EC8B40850 8LBN0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244762
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201884)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B40D010 EC8B40850 8LBN0WMH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3917.0 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Spacing Criteria (0/90/45): 0.74 / 0.74 / 0.79
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

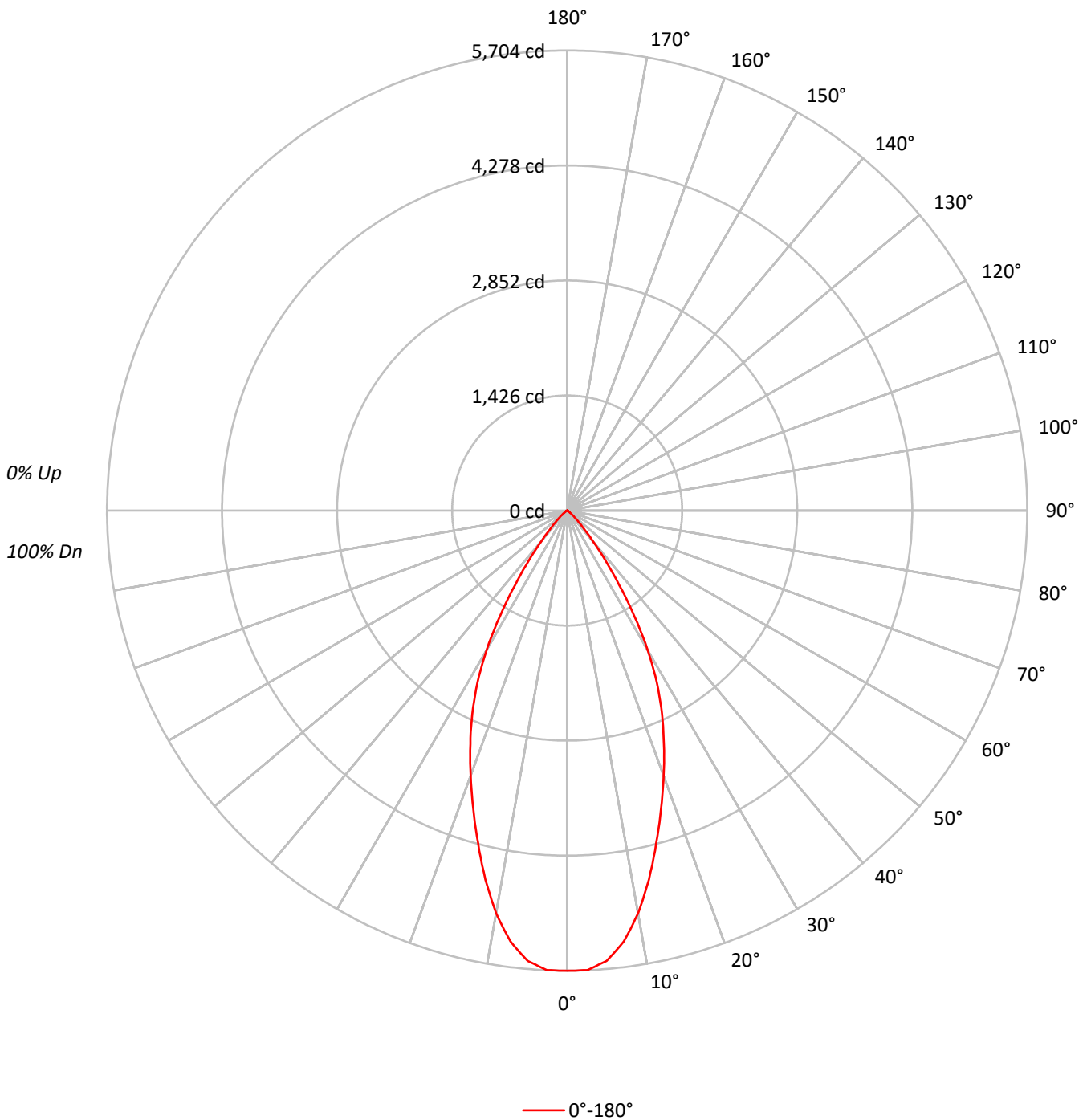
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P244762

CATALOG NUMBER: LSR8B40D010 EC8B40850 8LBN0WMH

Luminous Intensity Polar Plot





TEST NUMBER: P244762

CATALOG NUMBER: LSR8B40D010 EC8B40850 8LBN0WMH

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	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	108	104	100	97	106	102	99	96	99	96	93	96	94	91	93	91	90	88
3	103	97	92	89	101	96	91	88	93	89	86	91	88	85	89	86	84	82
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	79	77
5	94	86	80	76	92	85	80	76	83	78	75	81	77	74	80	76	74	72
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68
7	85	76	71	67	84	76	70	66	74	70	66	73	69	66	72	68	65	64
8	81	72	66	63	80	72	66	62	71	66	62	70	65	62	69	65	62	60
9	78	68	63	59	77	68	63	59	67	62	59	66	62	58	65	61	58	57
10	74	65	59	56	73	65	59	56	64	59	56	63	59	55	62	58	55	54

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	175903
5°	173451
10°	158705
15°	136258
20°	114742
25°	94778
30°	71107
35°	42384
40°	20187
45°	8796
50°	3967
55°	1742
60°	1036
65°	569
70°	586
75°	0
80°	231
85°	955



TEST NUMBER: P244762

CATALOG NUMBER: LSR8B40D010 EC8B40850 8LBN0WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.5	13.2
10°-20°	1189.3	30.4
20°-30°	1261.9	32.2
30°-40°	720.0	18.4
40°-50°	178.5	4.6
50°-60°	35.0	0.9
60°-70°	10.5	0.3
70°-80°	2.4	0.1
80°-90°	2.0	0.1
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°	2968.7	75.8
0°-40°	3688.7	94.2
0°-60°	3902.2	99.6
0°-90°	3917.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3917.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5704	
5°	5604	517
15°	4268	1189
25°	2786	1262
35°	1126	720
45°	202	178
55°	32	35
65°	8	11
75°	0	2
85°	3	2
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: P244762

CATALOG NUMBER: LSR8B40D010 EC8B40850 8LBN0WMH

CANDELA DISTRIBUTION (FULL):

0°	
0°	5704.4
2.5°	5701.8
5°	5603.5
7.5°	5387.6
10°	5068.5
12.5°	4683.2
15°	4268.2
17.5°	3872.7
20°	3496.6
22.5°	3134.7
25°	2785.6
27.5°	2410.7
30°	1997.0
32.5°	1552.4
35°	1125.9
37.5°	775.6
40°	501.5
42.5°	318.0
45°	201.7
47.5°	131.9
50°	82.7
52.5°	50.3
55°	32.4
57.5°	25.9
60°	16.8
62.5°	15.5
65°	7.8
67.5°	7.8
70°	6.5
72.5°	3.8
75°	0.0
77.5°	1.3
80°	1.3
82.5°	2.7
85°	2.7
87.5°	1.3
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: P244762

CATALOG NUMBER: LSR8B40D010 EC8B40850 8LBN0WMH

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)