

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: P244360

Luminaire Tested: **LSR8B40D010 EC8B40950 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244360
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27944)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B40D010 EC8B40950 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3675.0 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.79
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

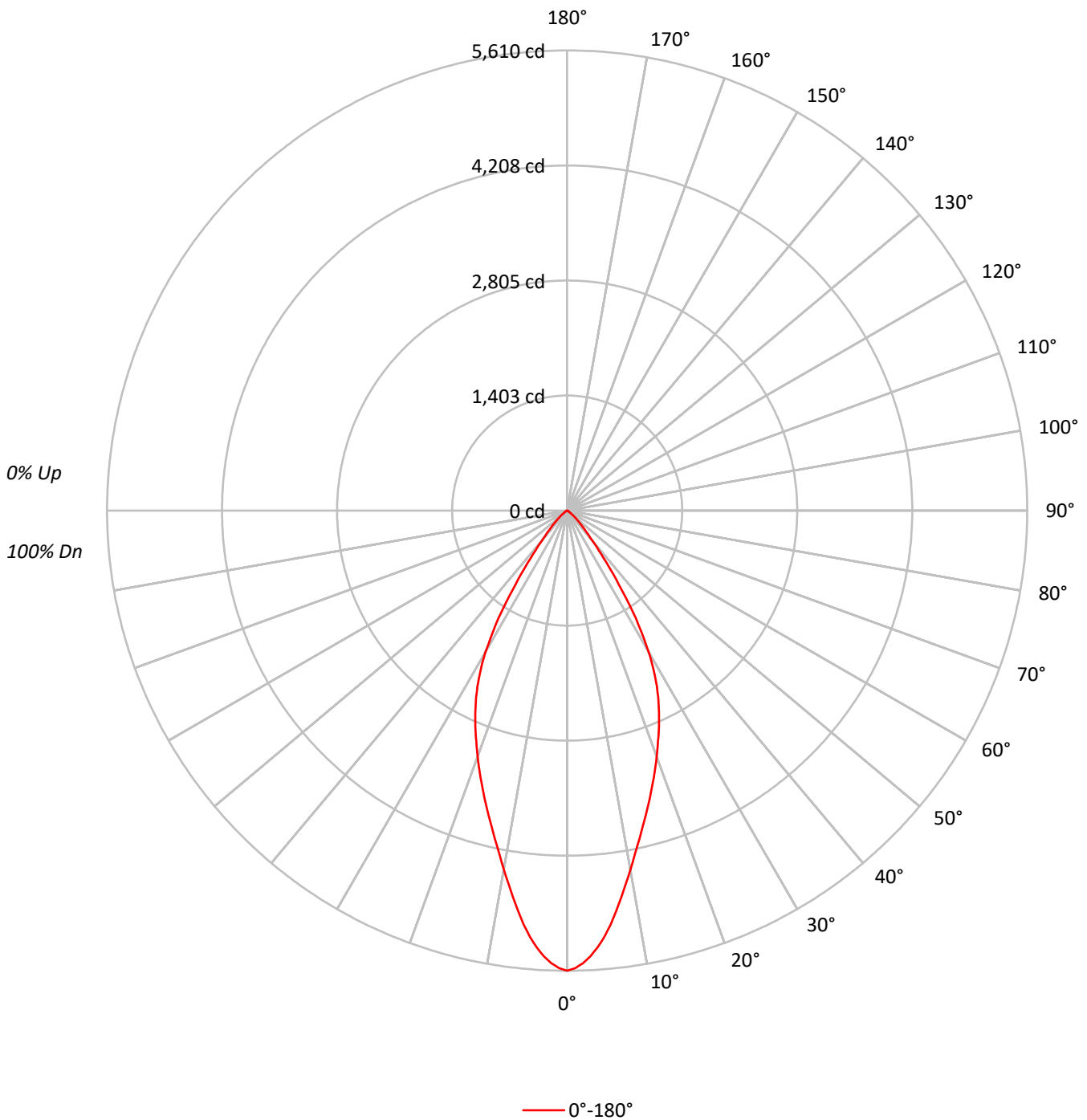
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P244360

CATALOG NUMBER: LSR8B40D010 EC8B40950 8LBN0H

Luminous Intensity Polar Plot





TEST NUMBER: P244360

CATALOG NUMBER: LSR8B40D010 EC8B40950 8LBN0H

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	90	85	81	87	83	80		85	82	79		84	80	78	76
5	93	85	79	75	92	84	79	75	82	78	74		81	77	74		79	76	73	72
6	89	80	74	70	87	79	74	70	78	73	69		76	72	69		75	71	69	67
7	85	76	70	66	83	75	69	65	74	69	65		72	68	65		71	67	64	63
8	81	71	66	62	79	71	65	61	70	65	61		69	64	61		68	64	61	59
9	77	68	62	58	76	67	62	58	66	61	58		65	61	58		64	60	57	56
10	74	64	59	55	73	64	58	55	63	58	55		62	58	54		61	57	54	53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	172989
5°	161358
10°	139088
15°	120373
20°	104714
25°	89990
30°	70708
35°	41254
40°	19036
45°	9851
50°	4941
55°	2403
60°	1227
65°	722
70°	334
75°	298
80°	213
85°	0



TEST NUMBER: P244360

CATALOG NUMBER: LSR8B40D010 EC8B40950 8LBN0H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.7	12.8
10°-20°	1054.3	28.7
20°-30°	1198.6	32.6
30°-40°	703.9	19.2
40°-50°	188.9	5.1
50°-60°	44.8	1.2
60°-70°	10.2	0.3
70°-80°	2.3	0.1
80°-90°	0.2	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°	2724.6	74.1
0°-40°	3428.6	93.3
0°-60°	3662.3	99.7
0°-90°	3675.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3675.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5610	
5°	5213	472
15°	3771	1054
25°	2645	1199
35°	1096	704
45°	226	189
55°	45	45
65°	10	10
75°	2	2
85°	0	0
90°	0	



TEST NUMBER: P244360

CATALOG NUMBER: LSR8B40D010 EC8B40950 8LBN0H

CANDELA DISTRIBUTION (FULL):

0°	
0°	5609.9
1°	5578.9
2°	5521.8
3°	5441.1
4°	5336.9
5°	5212.8
6°	5072.5
7°	4913.6
8°	4754.8
9°	4594.7
10°	4442.0
11°	4293.1
12°	4152.8
13°	4022.5
14°	3892.2
15°	3770.6
16°	3651.4
17°	3533.5
18°	3419.3
19°	3303.9
20°	3191.0
21°	3078.0
22°	2970.0
23°	2863.3
24°	2754.1
25°	2644.9
26°	2531.9
27°	2409.0
28°	2280.0
29°	2138.5
30°	1985.8
32.5°	1557.6
35°	1095.9
37.5°	722.3
40°	472.9
42.5°	326.4
45°	225.9
47.5°	155.1
50°	103.0
52.5°	67.0
55°	44.7
57.5°	29.8
60°	19.9
62.5°	13.7
65°	9.9



TEST NUMBER: P244360

CATALOG NUMBER: LSR8B40D010 EC8B40950 8LBN0H

CANDELA DISTRIBUTION (continued):

	0°
67.5°	6.2
70°	3.7
72.5°	2.5
75°	2.5
77.5°	1.2
80°	1.2
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)