

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: P244426

Luminaire Tested: **LSR8B40D010 EC8B40940 8LBM0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244426
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27951)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B40D010 EC8B40940 8LBM0H
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3863.0 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.93
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

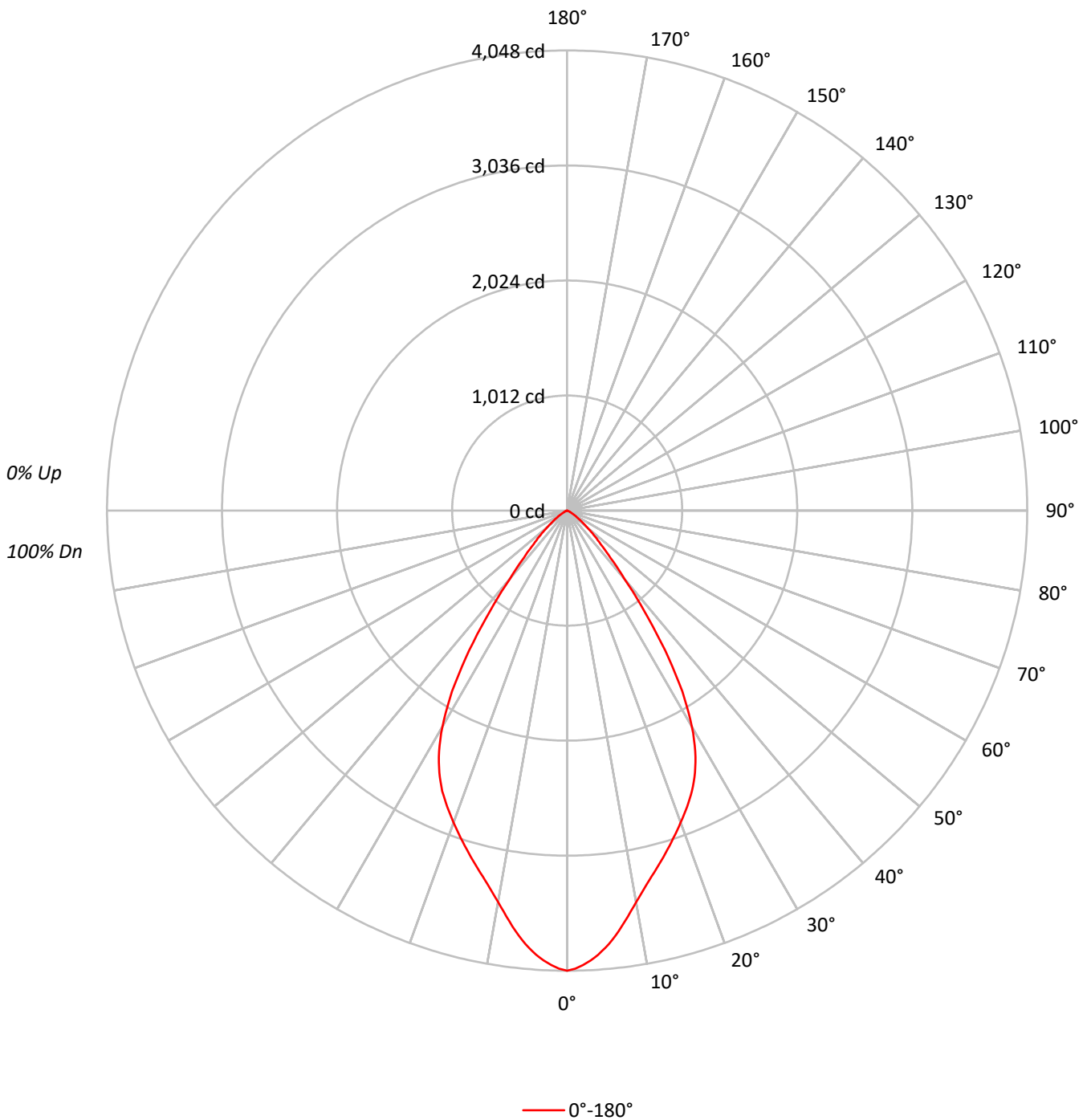
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	82	86	83	80	79
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	73
5	90	82	75	71	89	81	75	70	79	74	70	77	73	69	75	72	69	67
6	85	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	51	50
10	69	59	53	49	68	58	53	49	58	52	48	57	52	48	56	51	48	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	124822
5°	119529
10°	109526
15°	101915
20°	95854
25°	89681
30°	78210
35°	56527
40°	31688
45°	18233
50°	11158
55°	6349
60°	3299
65°	1685
70°	920
75°	548
80°	320
85°	318



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.5	9.2
10°-20°	897.4	23.2
20°-30°	1197.4	31.0
30°-40°	923.0	23.9
40°-50°	344.1	8.9
50°-60°	112.5	2.9
60°-70°	26.0	0.7
70°-80°	5.2	0.1
80°-90°	0.7	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°	2451.4	63.5
0°-40°	3374.4	87.4
0°-60°	3831.0	99.2
0°-90°	3863.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3863.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4048	
5°	3862	357
15°	3192	897
25°	2636	1197
35°	1502	923
45°	418	344
55°	118	113
65°	23	26
75°	5	5
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4047.9
1°	4030.4
2°	4000.8
3°	3963.0
4°	3916.9
5°	3861.5
6°	3798.7
7°	3726.7
8°	3650.1
9°	3570.8
10°	3497.9
11°	3427.7
12°	3362.2
13°	3302.2
14°	3246.8
15°	3192.4
16°	3137.0
17°	3083.5
18°	3028.1
19°	2973.6
20°	2921.0
21°	2866.6
22°	2814.0
23°	2758.6
24°	2700.5
25°	2635.8
26°	2564.8
27°	2486.3
28°	2399.6
29°	2302.7
30°	2196.5
32.5°	1885.5
35°	1501.6
37.5°	1112.1
40°	787.2
42.5°	563.9
45°	418.1
47.5°	314.7
50°	232.6
52.5°	166.1
55°	118.1
57.5°	81.2
60°	53.5
62.5°	35.1
65°	23.1



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	15.7
70°	10.2
72.5°	6.5
75°	4.6
77.5°	2.8
80°	1.8
82.5°	0.9
85°	0.9
87.5°	0.0
90°	0.0

(END OF REPORT)