

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: P244324

Luminaire Tested: **LSR8B40D010 EC8B40840 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244324
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 EC8B40840 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3959.0 lumens
Efficiency: N/A
Efficacy: 96.8 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

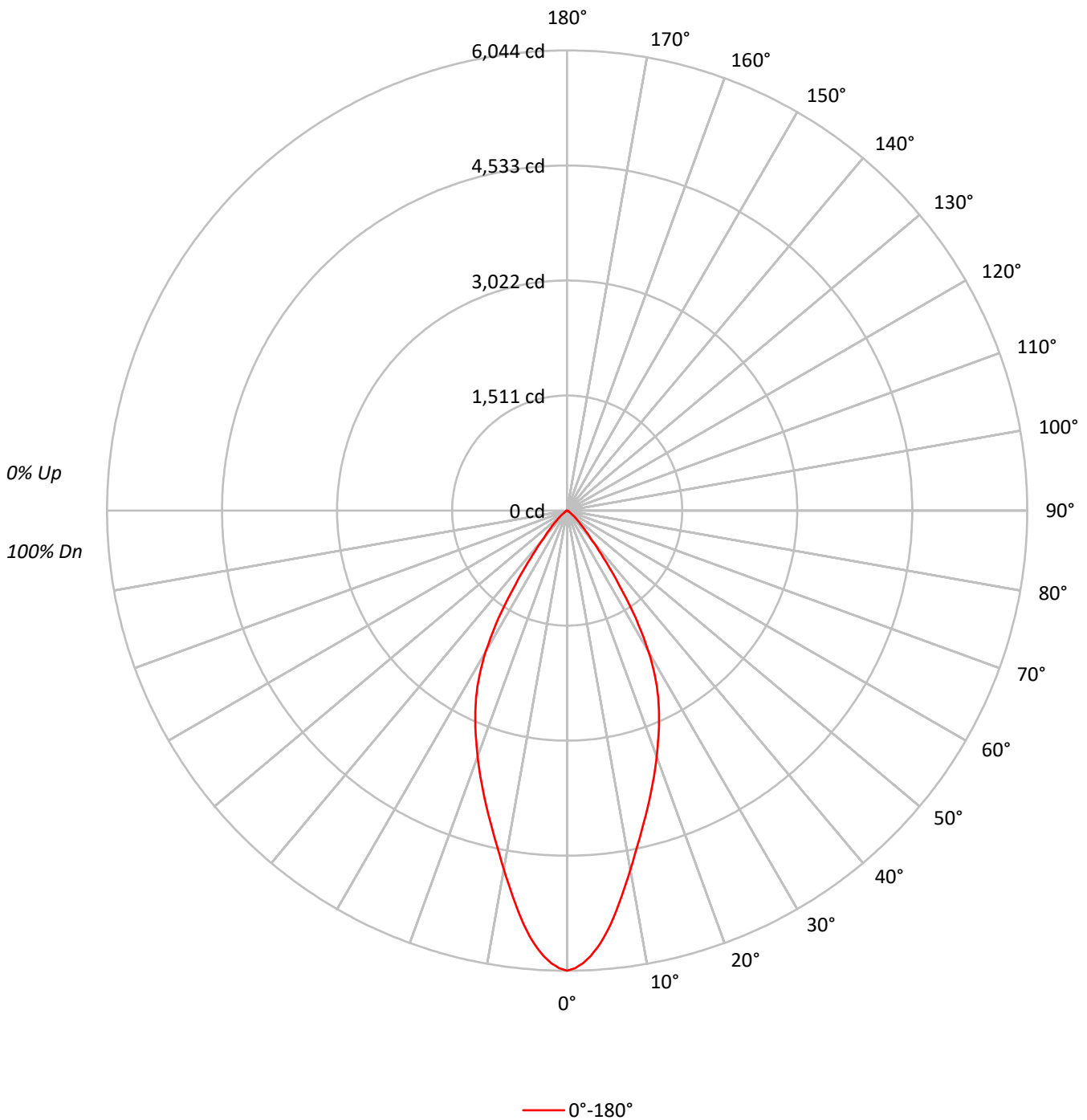
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	186359
5°	173826
10°	149837
15°	129673
20°	112803
25°	96941
30°	76173
35°	44443
40°	20505
45°	10610
50°	5325
55°	2586
60°	1320
65°	781
70°	361
75°	322
80°	231
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	508.2	12.8
10°-20°	1135.7	28.7
20°-30°	1291.3	32.6
30°-40°	758.3	19.2
40°-50°	203.5	5.1
50°-60°	48.3	1.2
60°-70°	11.0	0.3
70°-80°	2.5	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°	2935.2	74.1
0°-40°	3693.5	93.3
0°-60°	3945.3	99.7
0°-90°	3959.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3959.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6044	
5°	5616	508
15°	4062	1136
25°	2849	1291
35°	1181	758
45°	243	203
55°	48	48
65°	11	11
75°	3	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6043.5
1°	6010.0
2°	5948.5
3°	5861.6
4°	5749.3
5°	5615.6
6°	5464.5
7°	5293.4
8°	5122.2
9°	4949.7
10°	4785.3
11°	4624.8
12°	4473.8
13°	4333.4
14°	4193.0
15°	4061.9
16°	3933.6
17°	3806.6
18°	3683.6
19°	3559.2
20°	3437.5
21°	3315.9
22°	3199.6
23°	3084.6
24°	2966.9
25°	2849.2
26°	2727.6
27°	2595.2
28°	2456.2
29°	2303.7
30°	2139.3
32.5°	1678.0
35°	1180.6
37.5°	778.2
40°	509.4
42.5°	351.6
45°	243.3
47.5°	167.1
50°	111.0
52.5°	72.2
55°	48.1
57.5°	32.1
60°	21.4
62.5°	14.7
65°	10.7



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	6.7
70°	4.0
72.5°	2.7
75°	2.7
77.5°	1.3
80°	1.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)