

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: P244354

Luminaire Tested: **LSR8B40D010 EC8B40940 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244354
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 EC8B40940 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE 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: 3550.0 lumens
Efficiency: N/A
Efficacy: 86.8 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

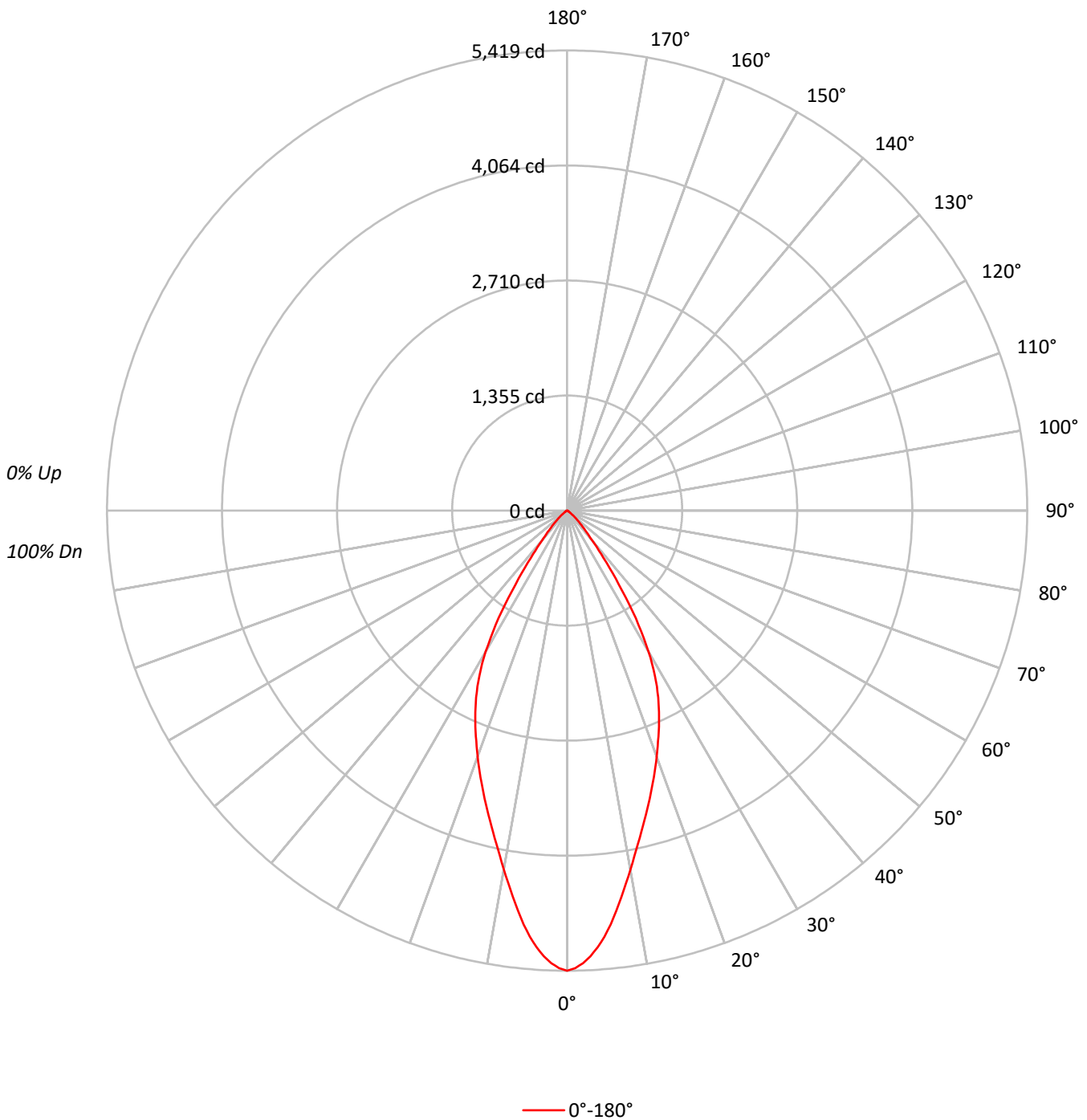
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	167105
5°	155869
10°	134357
15°	116277
20°	101150
25°	86928
30°	68304
35°	39850
40°	18388
45°	9516
50°	4773
55°	2322
60°	1184
65°	700
70°	325
75°	286
80°	213
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	455.7	12.8
10°-20°	1018.4	28.7
20°-30°	1157.9	32.6
30°-40°	680.0	19.2
40°-50°	182.5	5.1
50°-60°	43.3	1.2
60°-70°	9.9	0.3
70°-80°	2.2	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°	2632.0	74.1
0°-40°	3312.0	93.3
0°-60°	3537.8	99.7
0°-90°	3550.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3550.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5419	
5°	5036	456
15°	3642	1018
25°	2555	1158
35°	1059	680
45°	218	182
55°	43	43
65°	10	10
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5419.1
1°	5389.1
2°	5334.0
3°	5256.1
4°	5155.3
5°	5035.5
6°	4900.0
7°	4746.5
8°	4593.1
9°	4438.4
10°	4290.9
11°	4147.1
12°	4011.6
13°	3885.7
14°	3759.8
15°	3642.3
16°	3527.2
17°	3413.3
18°	3303.0
19°	3191.5
20°	3082.4
21°	2973.3
22°	2869.0
23°	2765.9
24°	2660.4
25°	2554.9
26°	2445.8
27°	2327.1
28°	2202.4
29°	2065.7
30°	1918.3
32.5°	1504.6
35°	1058.6
37.5°	697.8
40°	456.8
42.5°	315.3
45°	218.2
47.5°	149.9
50°	99.5
52.5°	64.7
55°	43.2
57.5°	28.8
60°	19.2
62.5°	13.2
65°	9.6



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	6.0
70°	3.6
72.5°	2.4
75°	2.4
77.5°	1.2
80°	1.2
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)