

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: P244306

Luminaire Tested: **LSR8B40D010 EC8B40827 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244306
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 EC8B40827 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3739.0 lumens
Efficiency: N/A
Efficacy: 91.4 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

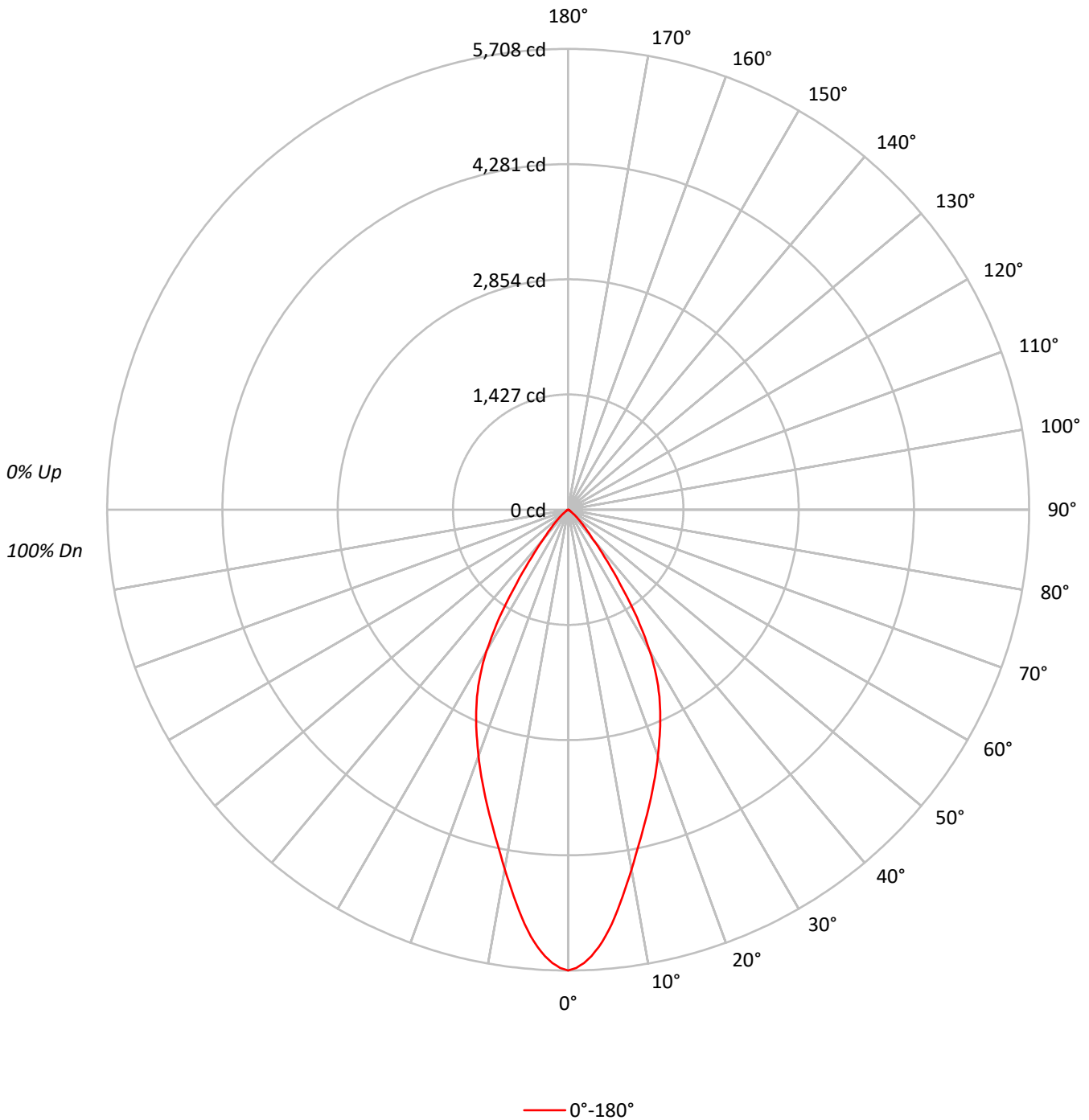
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	176001
5°	164165
10°	141512
15°	122467
20°	106535
25°	91555
30°	71940
35°	41973
40°	19366
45°	10021
50°	5028
55°	2446
60°	1246
65°	737
70°	343
75°	298
80°	231
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.0	12.8
10°-20°	1072.6	28.7
20°-30°	1219.5	32.6
30°-40°	716.2	19.2
40°-50°	192.2	5.1
50°-60°	45.6	1.2
60°-70°	10.4	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°	2772.1	74.1
0°-40°	3488.3	93.3
0°-60°	3726.1	99.7
0°-90°	3739.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3739.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5708	
5°	5304	480
15°	3836	1073
25°	2691	1220
35°	1115	716
45°	230	192
55°	46	46
65°	10	10
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5707.6
1°	5676.0
2°	5618.0
3°	5535.9
4°	5429.8
5°	5303.5
6°	5160.8
7°	4999.2
8°	4837.6
9°	4674.7
10°	4519.4
11°	4367.8
12°	4225.2
13°	4092.6
14°	3960.0
15°	3836.2
16°	3715.0
17°	3595.0
18°	3478.9
19°	3361.4
20°	3246.5
21°	3131.6
22°	3021.8
23°	2913.2
24°	2802.0
25°	2690.9
26°	2576.0
27°	2451.0
28°	2319.7
29°	2175.7
30°	2020.4
32.5°	1584.7
35°	1115.0
37.5°	734.9
40°	481.1
42.5°	332.1
45°	229.8
47.5°	157.8
50°	104.8
52.5°	68.2
55°	45.5
57.5°	30.3
60°	20.2
62.5°	13.9
65°	10.1



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	6.3
70°	3.8
72.5°	2.5
75°	2.5
77.5°	1.3
80°	1.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)