

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: P244330

Luminaire Tested: **LSR8B40D010 EC8B40850 8LBN0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244330  
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 EC8B40850 8LBN0H  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4037.0 lumens  
Efficiency: N/A  
Efficacy: 98.7 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

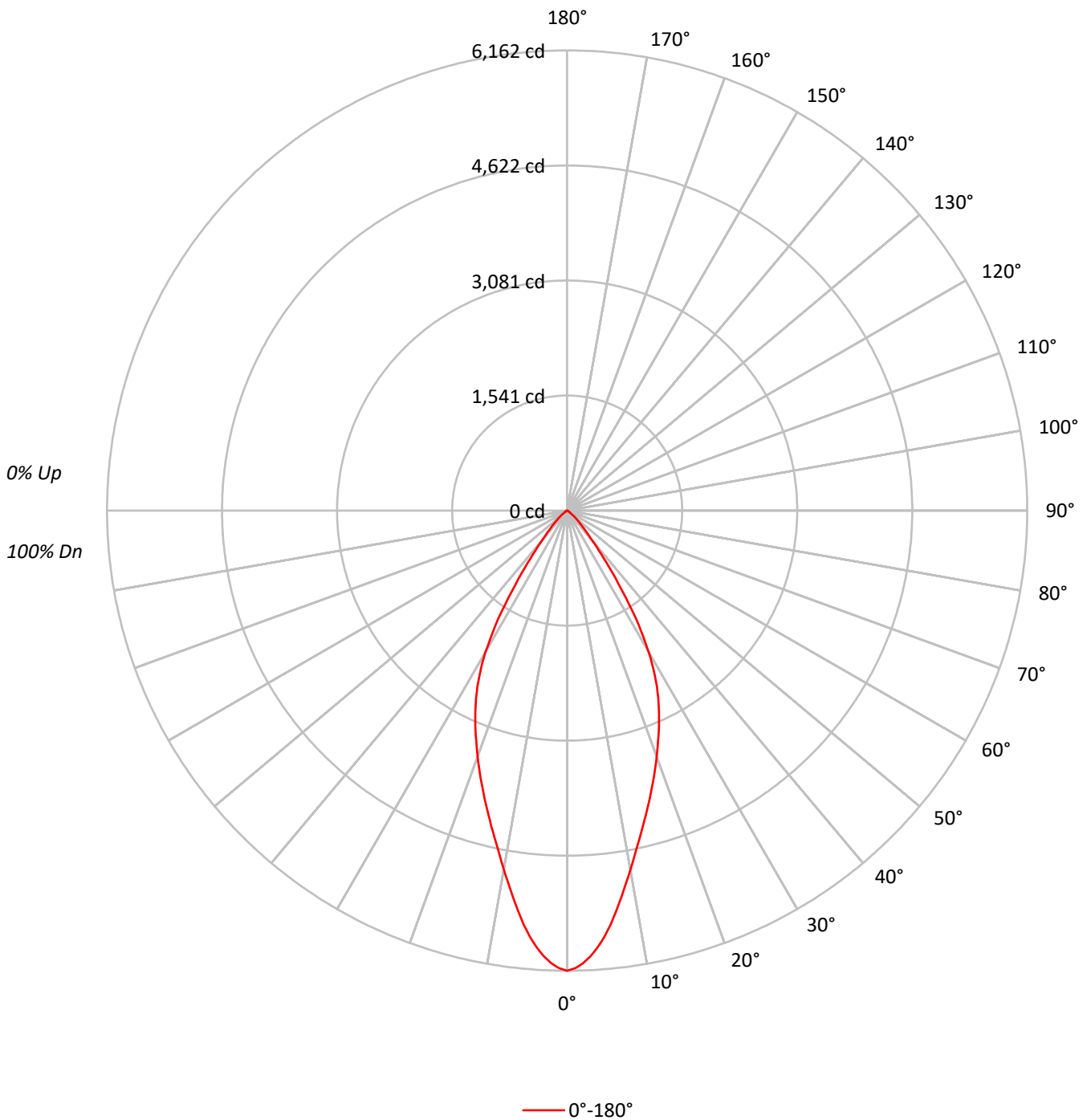
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	190029
5°	177249
10°	152790
15°	132230
20°	115028
25°	98854
30°	77672
35°	45320
40°	20912
45°	10819
50°	5431
55°	2640
60°	1344
65°	795
70°	370
75°	322
80°	249
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	518.2	12.8
10°-20°	1158.1	28.7
20°-30°	1316.7	32.6
30°-40°	773.3	19.2
40°-50°	207.5	5.1
50°-60°	49.2	1.2
60°-70°	11.2	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°	2993.0	74.1
0°-40°	3766.3	93.3
0°-60°	4023.1	99.7
0°-90°	4037.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4037.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6162	
5°	5726	518
15°	4142	1158
25°	2905	1317
35°	1204	773
45°	248	208
55°	49	49
65°	11	11
75°	3	3
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	6162.5
1°	6128.4
2°	6065.7
3°	5977.1
4°	5862.6
5°	5726.2
6°	5572.2
7°	5397.7
8°	5223.1
9°	5047.3
10°	4879.6
11°	4716.0
12°	4561.9
13°	4418.7
14°	4275.6
15°	4142.0
16°	4011.1
17°	3881.6
18°	3756.1
19°	3629.3
20°	3505.3
21°	3381.2
22°	3262.6
23°	3145.3
24°	3025.4
25°	2905.4
26°	2781.3
27°	2646.3
28°	2504.5
29°	2349.1
30°	2181.4
32.5°	1711.1
35°	1203.9
37.5°	793.5
40°	519.5
42.5°	358.6
45°	248.1
47.5°	170.4
50°	113.2
52.5°	73.6
55°	49.1
57.5°	32.7
60°	21.8
62.5°	15.0
65°	10.9



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	6.8
70°	4.1
72.5°	2.7
75°	2.7
77.5°	1.4
80°	1.4
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)