

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: P244786

Luminaire Tested: **LSR8B40D010 EC8B40940 8LBN0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244786  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201884)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B40D010 EC8B40940 8LBN0WMH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 4000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3443.9 lumens  
Efficiency: N/A  
Efficacy: 84.2 lumens/watt  
Spacing Criteria (0/90/45): 0.74 / 0.74 / 0.79  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

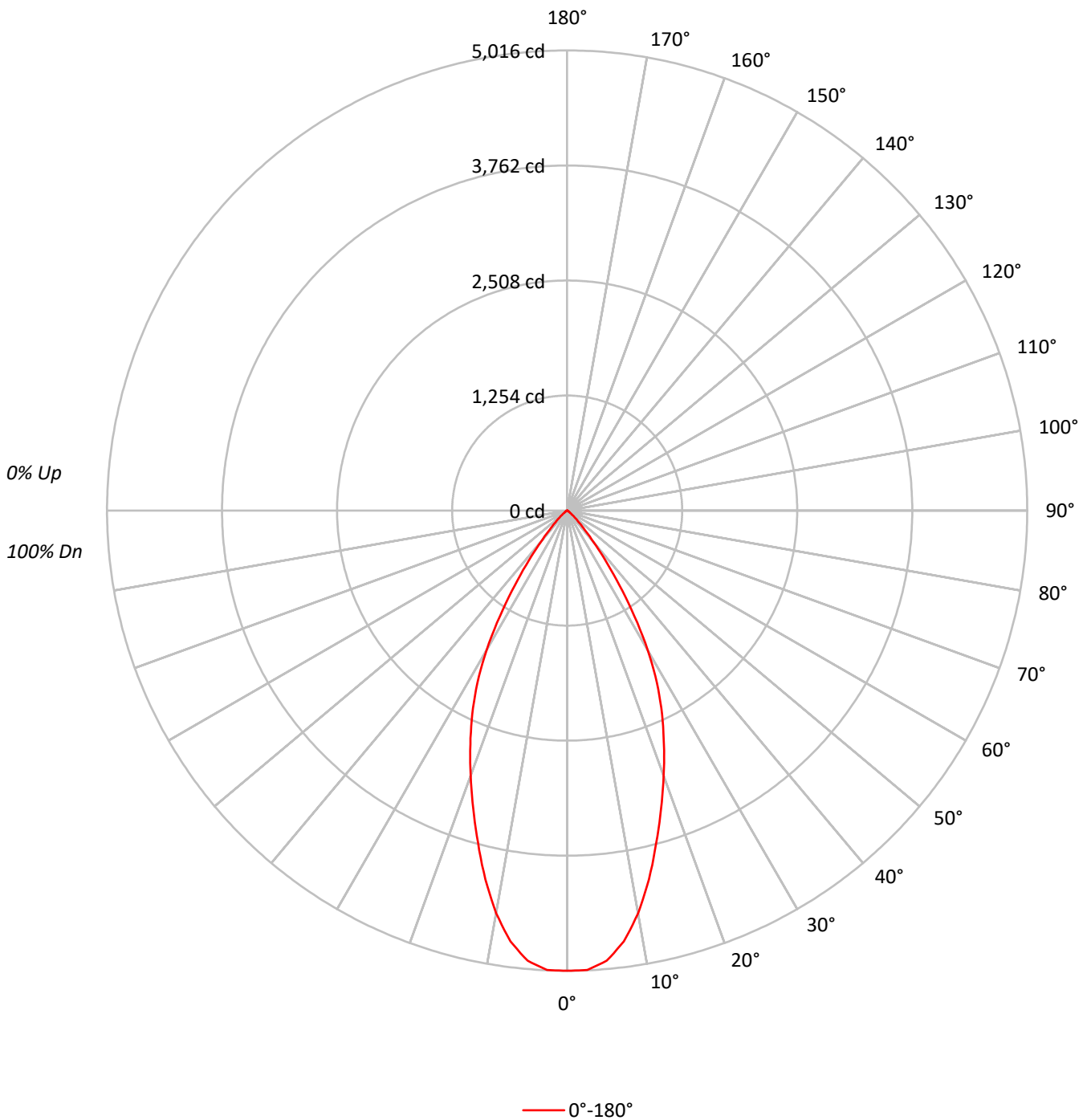
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	108	104	100	97	106	102	99	96	99	96	93	96	94	91	93	91	90	88
3	103	97	92	89	101	96	91	88	93	89	86	91	88	85	89	86	84	82
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	79	77
5	94	86	80	76	92	85	80	76	83	78	75	81	77	74	80	76	74	72
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68
7	85	76	71	67	84	76	70	66	74	70	66	73	69	66	72	68	65	64
8	81	72	66	63	80	72	66	62	71	66	62	70	65	62	69	65	62	60
9	78	68	63	59	77	68	63	59	67	62	59	66	62	59	65	61	58	57
10	74	65	59	56	73	65	59	56	64	59	56	63	59	55	62	58	55	54

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	154663
5°	152508
10°	139542
15°	119805
20°	100884
25°	83332
30°	62522
35°	37264
40°	17748
45°	7732
50°	3488
55°	1532
60°	907
65°	496
70°	514
75°	0
80°	195
85°	849



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	455.0	13.2
10°-20°	1045.7	30.4
20°-30°	1109.5	32.2
30°-40°	633.1	18.4
40°-50°	156.9	4.6
50°-60°	30.8	0.9
60°-70°	9.2	0.3
70°-80°	2.0	0.1
80°-90°	1.8	0.1
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°	2610.2	75.8
0°-40°	3243.3	94.2
0°-60°	3430.9	99.6
0°-90°	3443.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3443.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5016	
5°	4927	455
15°	3753	1046
25°	2449	1109
35°	990	633
45°	177	157
55°	28	31
65°	7	9
75°	0	2
85°	2	2
90°	0	0
95°	0	0
105°	0	0
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	0



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5015.6
2.5°	5013.2
5°	4926.9
7.5°	4737.0
10°	4456.5
12.5°	4117.6
15°	3752.8
17.5°	3405.1
20°	3074.3
22.5°	2756.2
25°	2449.2
27.5°	2119.6
30°	1755.9
32.5°	1364.9
35°	989.9
37.5°	682.0
40°	440.9
42.5°	279.6
45°	177.3
47.5°	116.0
50°	72.7
52.5°	44.2
55°	28.5
57.5°	22.8
60°	14.7
62.5°	13.6
65°	6.8
67.5°	6.8
70°	5.7
72.5°	3.3
75°	0.0
77.5°	1.1
80°	1.1
82.5°	2.4
85°	2.4
87.5°	1.1
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.0
110°	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)