

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: P244258

Luminaire Tested: **LSR8B40D010 EC8B40850 8LBW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244258  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27940)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B40D010 EC8B40850 8LBW0H  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 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: 4468.0 lumens  
Efficiency: N/A  
Efficacy: 109.2 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.12  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

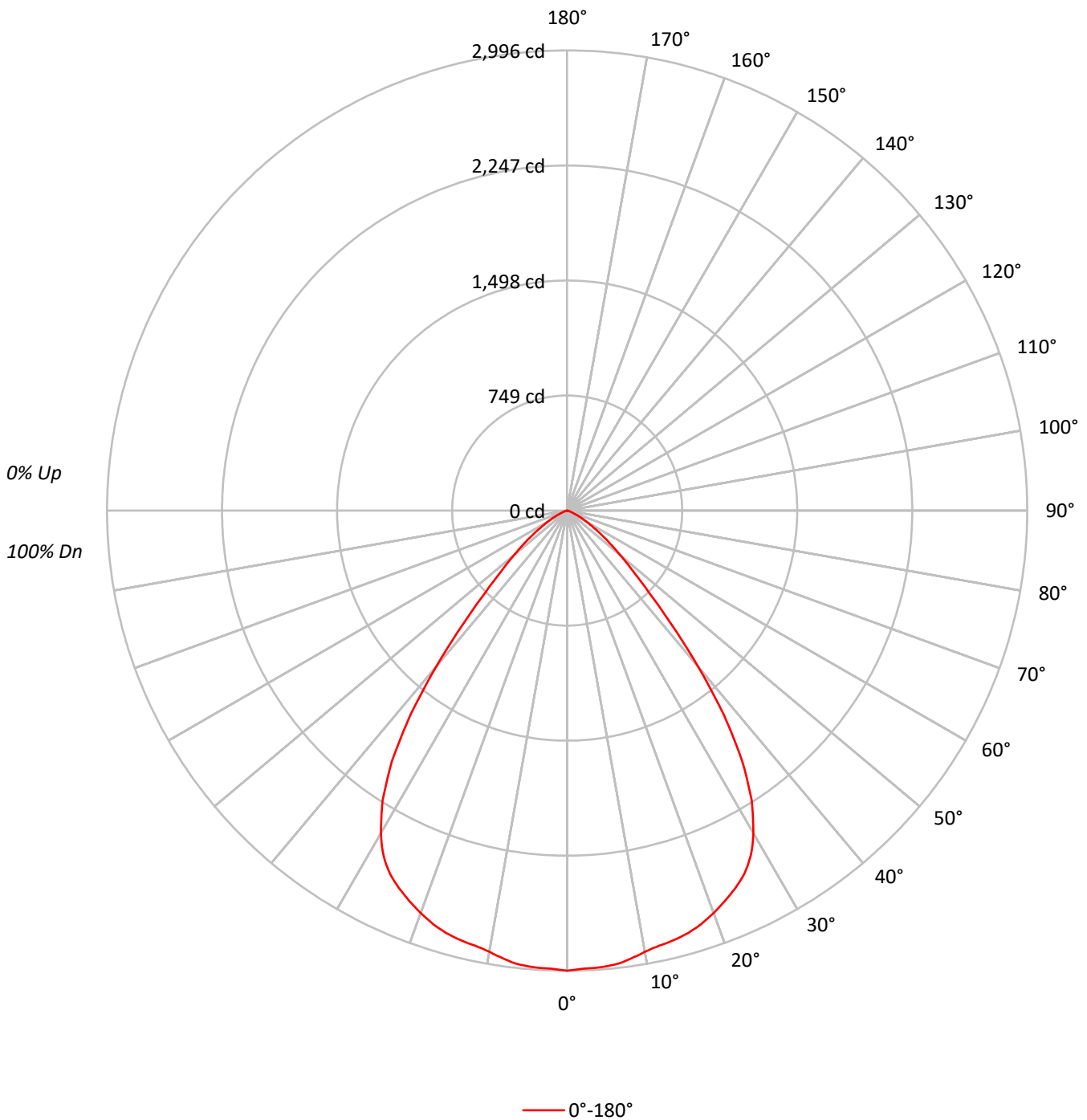
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	109	107	104	110	107	105	102	103	101	99		99	98	96		96	95	93	92
2	106	100	95	91	103	98	94	90	95	91	88		92	89	86		89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79		85	81	78		83	79	77	75
4	93	84	78	73	91	83	77	72	81	75	71		79	74	71		77	73	70	68
5	87	77	71	66	85	76	70	65	75	69	65		73	68	64		71	67	63	62
6	82	71	65	60	80	71	64	59	69	63	59		68	62	58		66	62	58	56
7	77	66	59	54	75	65	59	54	64	58	54		63	57	53		62	57	53	52
8	72	61	54	50	71	61	54	50	60	54	49		58	53	49		57	53	49	47
9	68	57	50	46	67	57	50	46	56	50	46		55	49	45		54	49	45	44
10	64	53	47	42	63	53	47	42	52	46	42		51	46	42		50	45	42	40

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

	0°
0°	92386
5°	92178
10°	91343
15°	91686
20°	91492
25°	90599
30°	86353
35°	74765
40°	53332
45°	32777
50°	21621
55°	14301
60°	9158
65°	4991
70°	2443
75°	1227
80°	693
85°	460



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	282.3	6.3
10°-20°	810.1	18.1
20°-30°	1219.1	27.3
30°-40°	1206.9	27.0
40°-50°	613.3	13.7
50°-60°	247.1	5.5
60°-70°	74.8	1.7
70°-80°	12.9	0.3
80°-90°	1.6	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°	2311.4	51.7
0°-40°	3518.3	78.7
0°-60°	4378.7	98.0
0°-90°	4468.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4468.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2996	
5°	2978	282
15°	2872	810
25°	2663	1219
35°	1986	1207
45°	752	613
55°	266	247
65°	68	75
75°	10	13
85°	1	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2996.0
1°	2989.5
2°	2984.3
3°	2983.1
4°	2981.8
5°	2977.9
6°	2972.7
7°	2962.4
8°	2946.9
9°	2932.7
10°	2917.2
11°	2904.3
12°	2895.2
13°	2888.8
14°	2881.0
15°	2872.0
16°	2860.4
17°	2846.2
18°	2829.4
19°	2810.0
20°	2788.1
21°	2764.8
22°	2741.6
23°	2717.0
24°	2691.2
25°	2662.8
26°	2631.8
27°	2591.8
28°	2545.3
29°	2489.8
30°	2425.2
32.5°	2236.6
35°	1986.1
37.5°	1673.6
40°	1324.9
42.5°	1000.8
45°	751.6
47.5°	574.7
50°	450.7
52.5°	350.0
55°	266.0
57.5°	197.6
60°	148.5
62.5°	105.9
65°	68.4



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	42.6
70°	27.1
72.5°	16.8
75°	10.3
77.5°	6.5
80°	3.9
82.5°	2.6
85°	1.3
87.5°	0.0
90°	0.0

(END OF REPORT)