

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: P244276

Luminaire Tested: **LSR8B40D010 EC8B40935 8LBW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244276  
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 EC8B40935 8LBW0H  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3762.0 lumens  
Efficiency: N/A  
Efficacy: 92.0 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

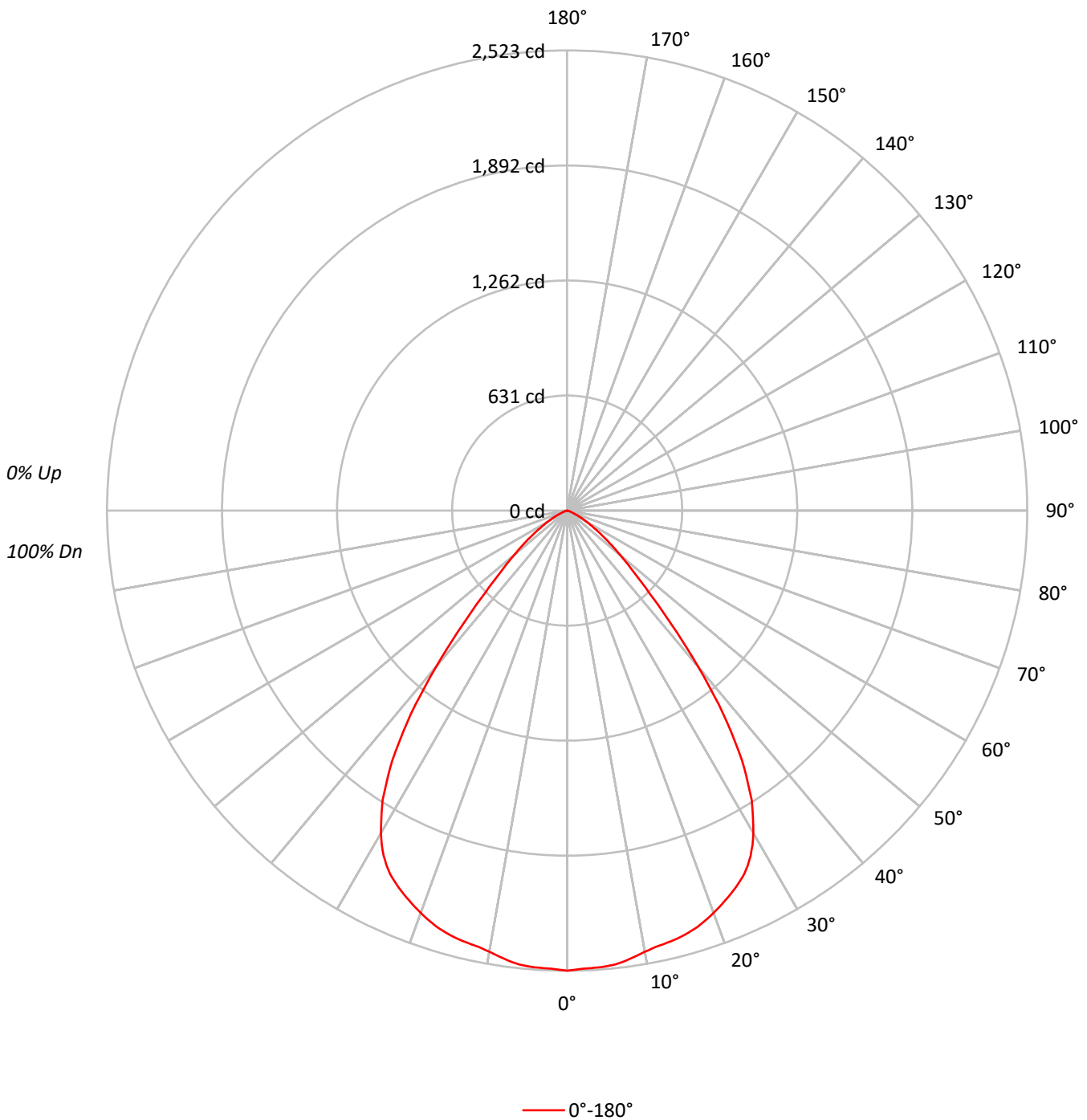
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92					92			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83					83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	79	77	75					75			
4	93	84	78	73	91	83	77	72	81	75	71	79	74	71	77	73	70	68					68			
5	87	77	71	66	85	76	70	65	75	69	65	73	68	64	71	67	63	62					62			
6	82	71	65	60	80	71	64	59	69	63	59	68	62	58	66	62	58	56					56			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	62	57	53	52					52			
8	72	61	54	50	71	61	54	50	60	54	49	58	53	49	57	53	49	47					47			
9	68	57	50	46	67	57	50	46	56	50	46	55	49	45	54	49	45	44					44			
10	64	53	47	42	63	53	47	42	52	46	42	51	46	42	50	45	42	40					40			

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

	0°
0°	77788
5°	77611
10°	76909
15°	77199
20°	77034
25°	76282
30°	72709
35°	62952
40°	44907
45°	27596
50°	18206
55°	12043
60°	7709
65°	4203
70°	2056
75°	1037
80°	586
85°	389



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	237.7	6.3
10°-20°	682.1	18.1
20°-30°	1026.4	27.3
30°-40°	1016.2	27.0
40°-50°	516.4	13.7
50°-60°	208.0	5.5
60°-70°	63.0	1.7
70°-80°	10.8	0.3
80°-90°	1.3	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°	1946.2	51.7
0°-40°	2962.4	78.7
0°-60°	3686.8	98.0
0°-90°	3762.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3762.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2523	
5°	2507	238
15°	2418	682
25°	2242	1026
35°	1672	1016
45°	633	516
55°	224	208
65°	58	63
75°	9	11
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2522.6
1°	2517.1
2°	2512.8
3°	2511.7
4°	2510.6
5°	2507.3
6°	2503.0
7°	2494.3
8°	2481.3
9°	2469.3
10°	2456.2
11°	2445.4
12°	2437.8
13°	2432.3
14°	2425.8
15°	2418.2
16°	2408.4
17°	2396.4
18°	2382.3
19°	2366.0
20°	2347.5
21°	2327.9
22°	2308.4
23°	2287.7
24°	2266.0
25°	2242.0
26°	2215.9
27°	2182.2
28°	2143.1
29°	2096.3
30°	2042.0
32.5°	1883.2
35°	1672.3
37.5°	1409.2
40°	1115.6
42.5°	842.7
45°	632.8
47.5°	483.9
50°	379.5
52.5°	294.7
55°	224.0
57.5°	166.4
60°	125.0
62.5°	89.2
65°	57.6



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	35.9
70°	22.8
72.5°	14.1
75°	8.7
77.5°	5.4
80°	3.3
82.5°	2.2
85°	1.1
87.5°	0.0
90°	0.0

(END OF REPORT)