

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: P244066

Luminaire Tested: **LSR8B40D010 EC8B40940 8LBSOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244066  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-12)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B40D010 EC8B40940 8LBS0LI  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 4000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4418.0 lumens  
Efficiency: N/A  
Efficacy: 108.0 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.24  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

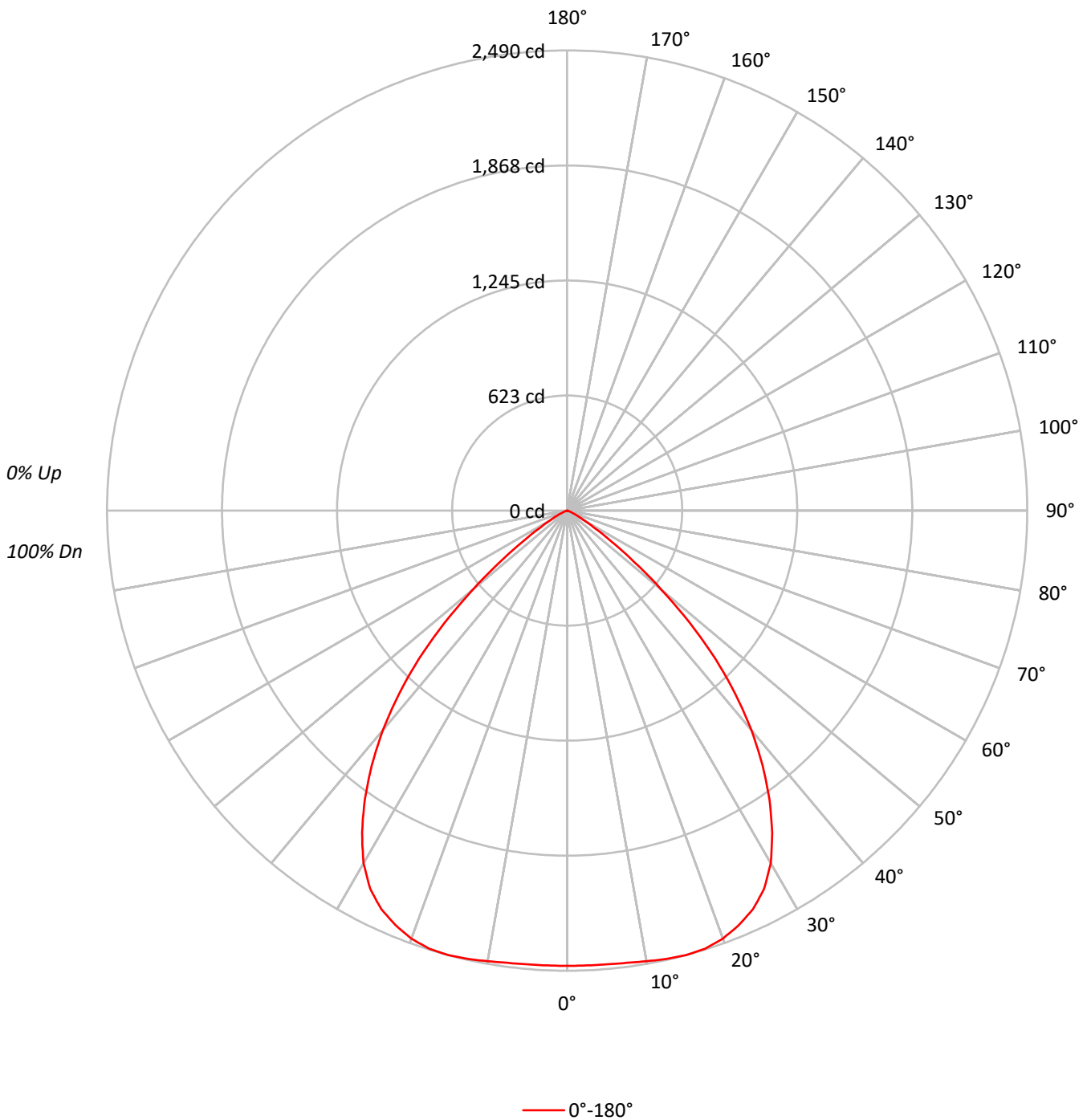
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	88	86	84	82
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66
5	86	76	69	63	84	75	68	63	73	67	63	71	66	62	69	65	61	60
6	80	70	62	57	79	69	62	57	67	61	56	66	60	56	64	59	56	54
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49
8	71	59	52	47	69	58	52	47	57	51	47	56	51	46	55	50	46	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	41
10	62	51	44	39	61	50	44	39	50	43	39	49	43	39	48	43	39	37

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

	0°
0°	75959
5°	76286
10°	77529
15°	79488
20°	80873
25°	80964
30°	78459
35°	71836
40°	62434
45°	49400
50°	32036
55°	16010
60°	6722
65°	2955
70°	911
75°	453
80°	444
85°	460



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.6	5.3
10°-20°	703.6	15.9
20°-30°	1090.0	24.7
30°-40°	1183.7	26.8
40°-50°	860.2	19.5
50°-60°	292.4	6.6
60°-70°	46.6	1.1
70°-80°	5.0	0.1
80°-90°	1.0	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°	2029.2	45.9
0°-40°	3212.9	72.7
0°-60°	4365.4	98.8
0°-90°	4418.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4418.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2463	
5°	2464	236
15°	2490	704
25°	2380	1090
35°	1908	1184
45°	1133	860
55°	298	292
65°	40	47
75°	4	5
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2463.3
2.5°	2463.3
5°	2464.5
7.5°	2468.3
10°	2476.0
12.5°	2484.8
15°	2489.9
17.5°	2484.8
20°	2464.5
22.5°	2427.8
25°	2379.6
27.5°	2307.4
30°	2203.5
32.5°	2065.4
35°	1908.3
37.5°	1737.2
40°	1551.0
42.5°	1349.5
45°	1132.8
47.5°	899.7
50°	667.8
52.5°	457.4
55°	297.8
57.5°	181.2
60°	109.0
62.5°	67.2
65°	40.5
67.5°	22.8
70°	10.1
72.5°	6.3
75°	3.8
77.5°	2.5
80°	2.5
82.5°	1.3
85°	1.3
87.5°	0.0
90°	0.0

(END OF REPORT)