

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: P244930

Luminaire Tested: **LSR8B40D010 EC8B40940 8LBS0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244930  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-14)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B40D010 EC8B40940 8LBS0WMH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 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: 4213.0 lumens  
Efficiency: N/A  
Efficacy: 103.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.25  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

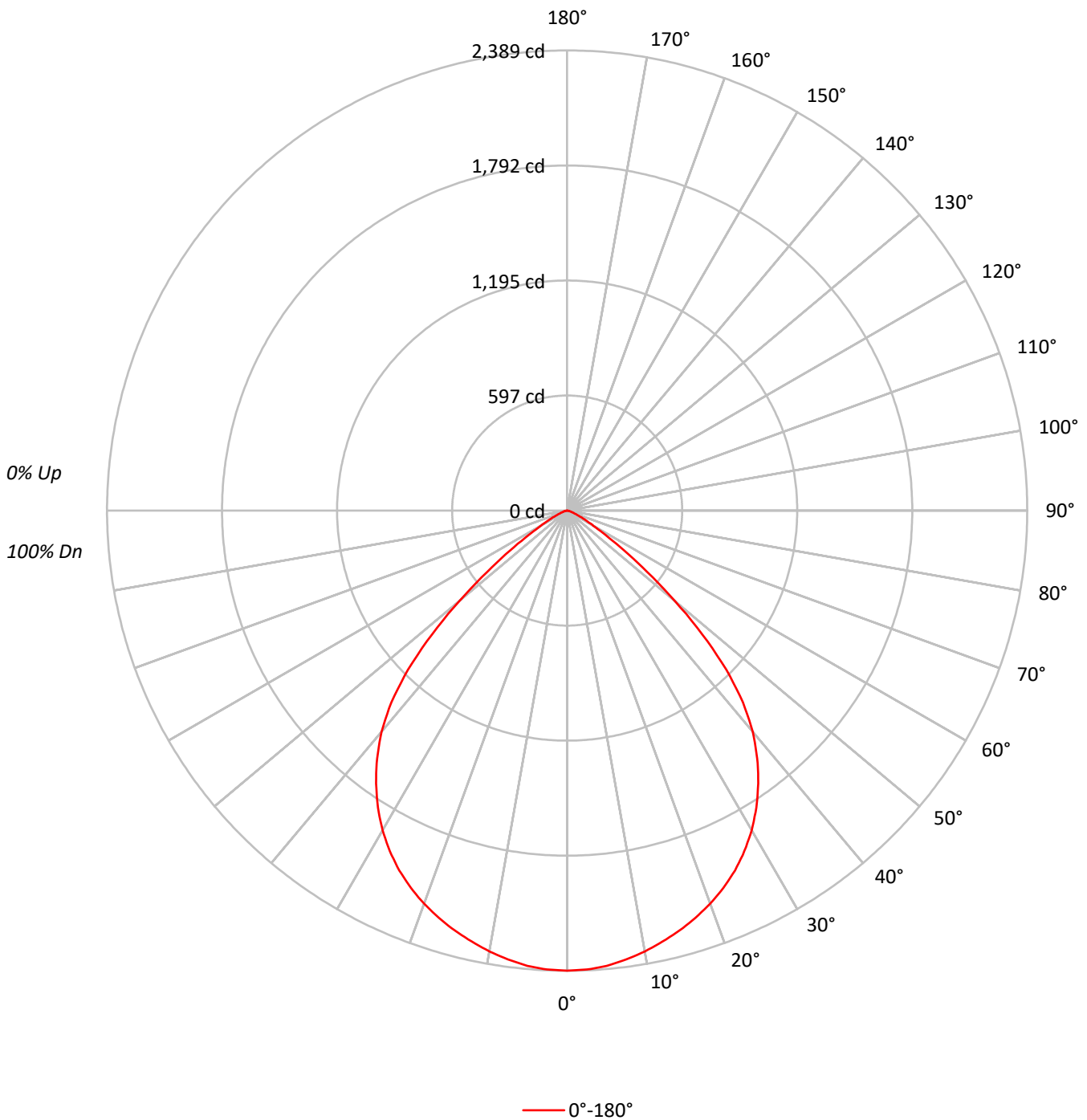
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	110	107	104	101	102	100	98	99	97	95	95	94	92	91
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65
5	85	74	67	62	83	73	67	61	71	65	61	70	64	60	68	63	60	58
6	79	68	61	55	77	67	60	55	66	59	55	64	58	54	63	58	54	52
7	74	63	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	45	43
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36

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

	0°
0°	73659
5°	73429
10°	72772
15°	72050
20°	71275
25°	70151
30°	68222
35°	65117
40°	60345
45°	50953
50°	34958
55°	19279
60°	9689
65°	5458
70°	2966
75°	2109
80°	1350
85°	885



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.9	5.3
10°-20°	636.5	15.1
20°-30°	947.6	22.5
30°-40°	1076.5	25.6
40°-50°	879.9	20.9
50°-60°	344.8	8.2
60°-70°	80.4	1.9
70°-80°	19.3	0.5
80°-90°	3.1	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°	1809.0	42.9
0°-40°	2885.5	68.5
0°-60°	4110.2	97.6
0°-90°	4213.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4213.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2389	
5°	2372	225
15°	2257	637
25°	2062	948
35°	1730	1076
45°	1168	880
55°	359	345
65°	75	80
75°	18	19
85°	2	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2388.7
2.5°	2384.9
5°	2372.2
7.5°	2350.7
10°	2324.1
12.5°	2291.1
15°	2256.9
17.5°	2216.4
20°	2172.0
22.5°	2120.1
25°	2061.8
27.5°	1993.3
30°	1916.0
32.5°	1828.6
35°	1729.8
37.5°	1620.8
40°	1499.1
42.5°	1352.1
45°	1168.4
47.5°	952.9
50°	728.7
52.5°	523.4
55°	358.6
57.5°	234.4
60°	157.1
62.5°	107.7
65°	74.8
67.5°	49.4
70°	32.9
72.5°	22.8
75°	17.7
77.5°	12.7
80°	7.6
82.5°	3.8
85°	2.5
87.5°	1.3
90°	0.0

(END OF REPORT)