

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: P246556

Luminaire Tested: **LSR8B40D010 EC8B40840 8LBW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246556  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-48)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B40D010 EC8B40840 8LBW0MW  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 4000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4456.0 lumens  
Efficiency: N/A  
Efficacy: 108.9 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

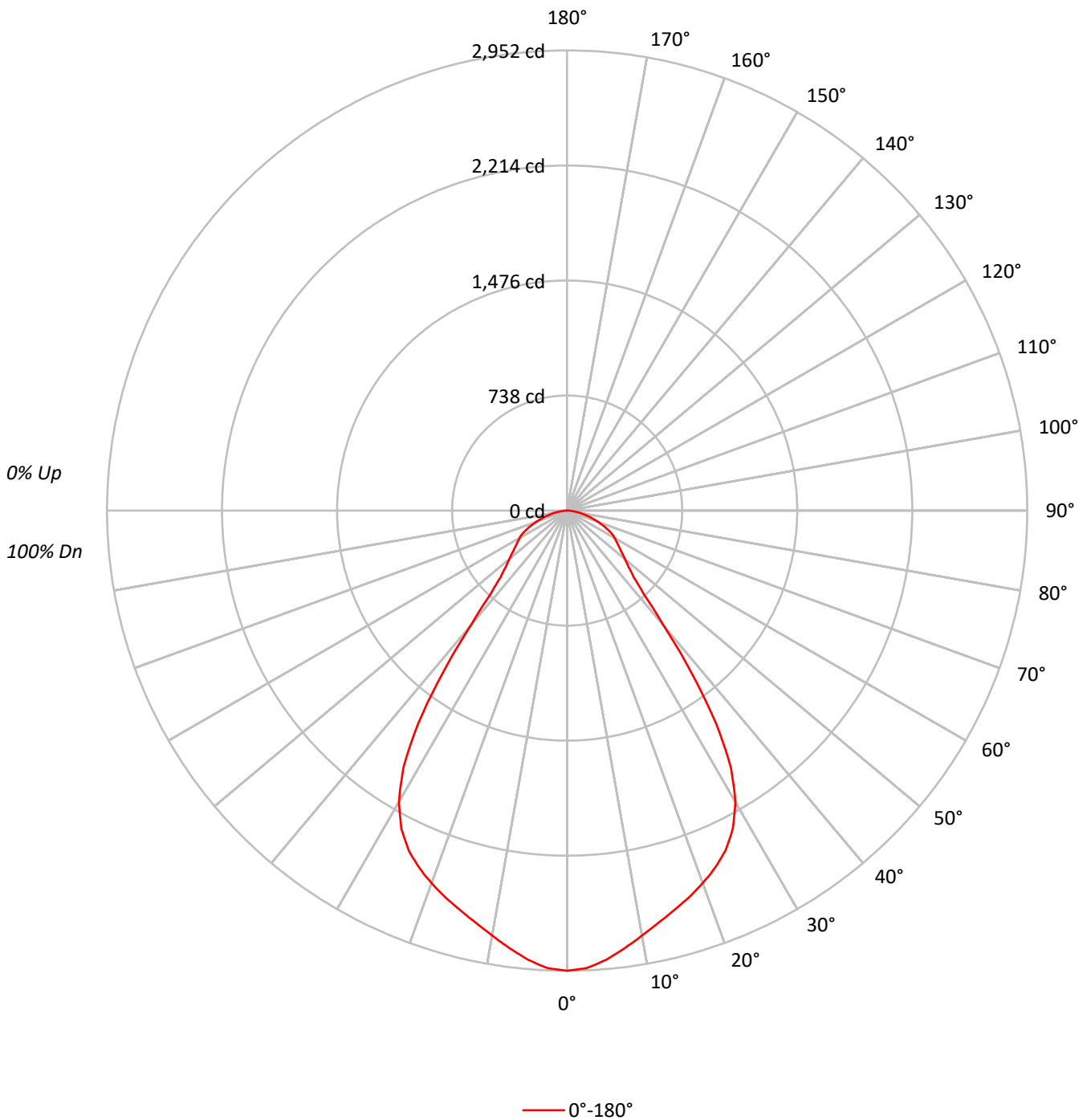
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	86	83	80	78
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51
7	74	62	55	49	72	61	54	49	60	54	49	59	53	49	57	52	48	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37

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

	0°
0°	91041
5°	89507
10°	86694
15°	84688
20°	83482
25°	81845
30°	76843
35°	62727
40°	38857
45°	26318
50°	23190
55°	21881
60°	21703
65°	21036
70°	18861
75°	16334
80°	13798
85°	11003



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	272.0	6.1
10°-20°	749.2	16.8
20°-30°	1098.8	24.7
30°-40°	1004.4	22.5
40°-50°	497.2	11.2
50°-60°	367.7	8.3
60°-70°	282.6	6.3
70°-80°	147.3	3.3
80°-90°	36.7	0.8
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°	2120.0	47.6
0°-40°	3124.4	70.1
0°-60°	3989.4	89.5
0°-90°	4456.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4456.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2952	
5°	2892	272
15°	2653	749
25°	2406	1099
35°	1666	1004
45°	604	497
55°	407	368
65°	288	283
75°	137	147
85°	31	37
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2952.4
2.5°	2936.9
5°	2891.6
7.5°	2830.9
10°	2768.7
12.5°	2707.9
15°	2652.8
17.5°	2600.5
20°	2544.0
22.5°	2480.4
25°	2405.5
27.5°	2302.3
30°	2158.1
32.5°	1956.0
35°	1666.3
37.5°	1307.3
40°	965.3
42.5°	730.7
45°	603.5
47.5°	534.2
50°	483.4
52.5°	442.4
55°	407.0
57.5°	377.4
60°	351.9
62.5°	325.1
65°	288.3
67.5°	248.7
70°	209.2
72.5°	172.4
75°	137.1
77.5°	106.0
80°	77.7
82.5°	53.7
85°	31.1
87.5°	11.3
90°	0.0

(END OF REPORT)