

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: P244690

Luminaire Tested: **LSR8B40D010 EC8B40850 8LBW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244690  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-44)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B40D010 EC8B40850 8LBW0WMH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 5000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4336.0 lumens  
Efficiency: N/A  
Efficacy: 106.0 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

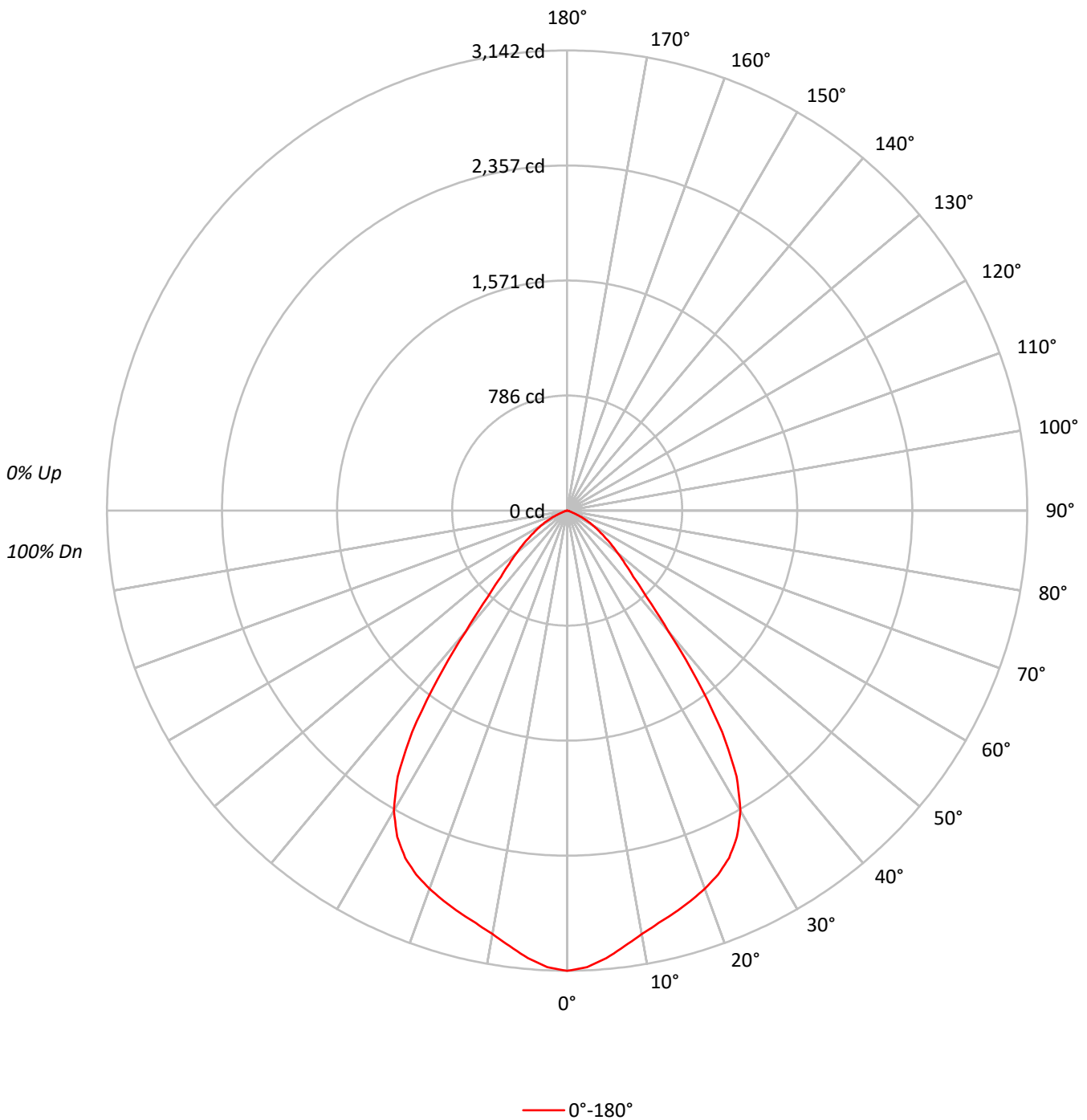
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	98	96	96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	83
3	99	91	86	81	97	90	85	80	87	83	79	85	81	78	82	79	76	75
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68
5	87	77	70	65	85	76	70	65	74	69	64	73	68	64	71	67	63	62
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51
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	65	54	47	42	63	53	47	42	52	46	42	51	46	42	51	46	42	41

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

	0°
0°	96897
5°	94949
10°	91941
15°	90703
20°	90163
25°	89021
30°	84235
35°	69476
40°	43382
45°	27897
50°	21636
55°	16655
60°	12618
65°	8201
70°	3507
75°	1716
80°	764
85°	495



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	288.5	6.7
10°-20°	802.7	18.5
20°-30°	1195.6	27.6
30°-40°	1110.3	25.6
40°-50°	524.4	12.1
50°-60°	281.8	6.5
60°-70°	113.1	2.6
70°-80°	17.8	0.4
80°-90°	1.8	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°	2286.8	52.7
0°-40°	3397.1	78.3
0°-60°	4203.3	96.9
0°-90°	4336.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4336.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3142	
5°	3067	289
15°	2841	803
25°	2616	1196
35°	1846	1110
45°	640	524
55°	310	282
65°	112	113
75°	14	18
85°	1	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3142.3
2.5°	3120.7
5°	3067.4
7.5°	2999.7
10°	2936.3
12.5°	2884.4
15°	2841.2
17.5°	2796.5
20°	2747.6
22.5°	2691.4
25°	2616.4
27.5°	2511.3
30°	2365.7
32.5°	2152.5
35°	1845.6
37.5°	1453.7
40°	1077.7
42.5°	802.5
45°	639.7
47.5°	534.5
50°	451.0
52.5°	376.0
55°	309.8
57.5°	252.1
60°	204.6
62.5°	159.9
65°	112.4
67.5°	66.3
70°	38.9
72.5°	23.1
75°	14.4
77.5°	8.6
80°	4.3
82.5°	2.9
85°	1.4
87.5°	0.0
90°	0.0

(END OF REPORT)