

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: P243820

Luminaire Tested: **LSR8B40D010 EC8B40840 8LBW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P243820
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27941)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B40D010 EC8B40840 8LBW0LI
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4613.0 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.17
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

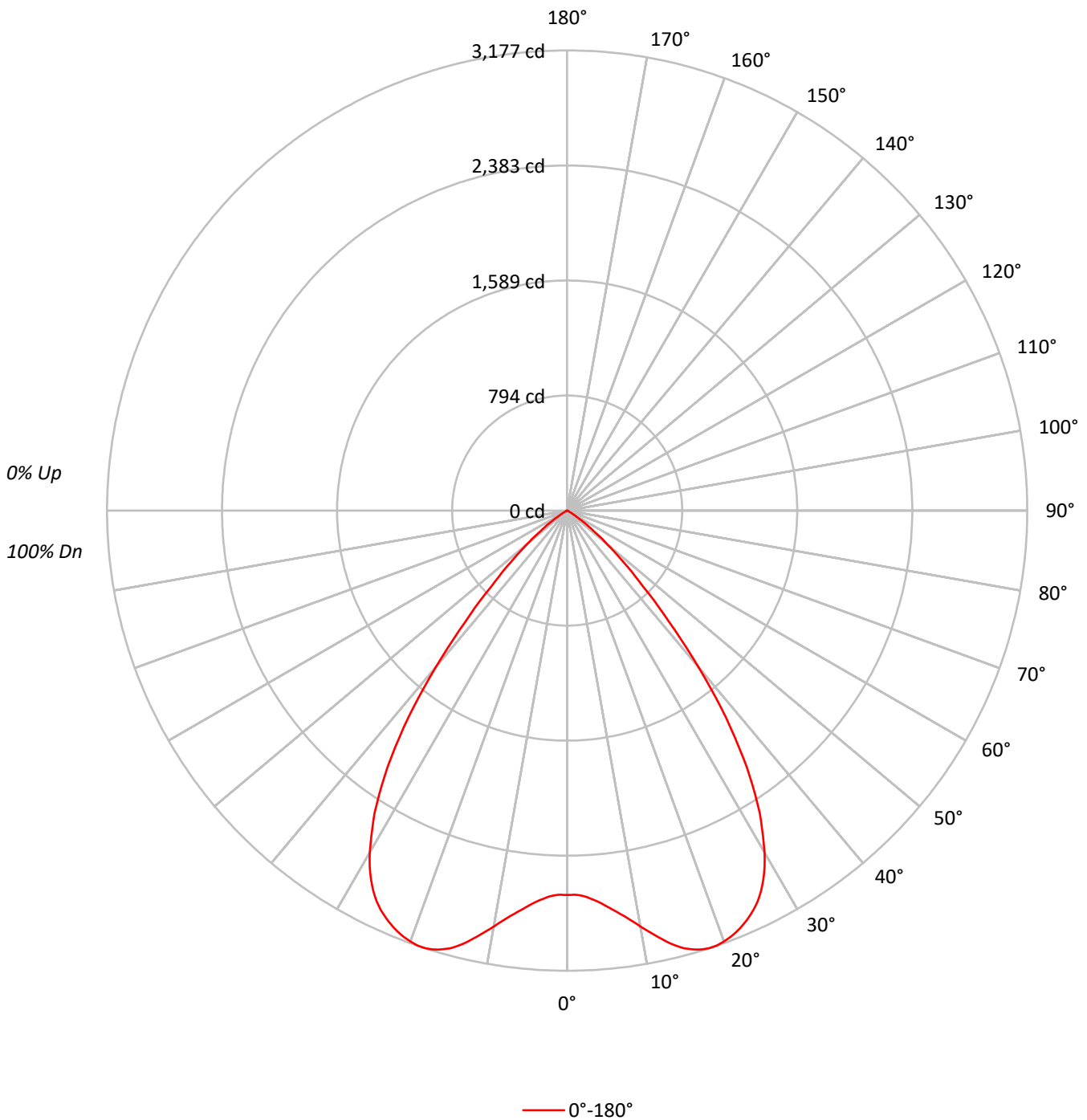
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	72	70
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	63	60	58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	49
9	70	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	81846
5°	84266
10°	91287
15°	99881
20°	103913
25°	103532
30°	97114
35°	81432
40°	56698
45°	32471
50°	17438
55°	7193
60°	1789
65°	460
70°	225
75°	155
80°	231
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.1	5.8
10°-20°	881.8	19.1
20°-30°	1387.5	30.1
30°-40°	1319.8	28.6
40°-50°	608.4	13.2
50°-60°	138.2	3.0
60°-70°	9.1	0.2
70°-80°	1.8	0.0
80°-90°	0.2	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°	2535.4	55.0
0°-40°	3855.2	83.6
0°-60°	4601.9	99.8
0°-90°	4613.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4613.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2654	
5°	2722	266
15°	3129	882
25°	3043	1387
35°	2163	1320
45°	745	608
55°	134	138
65°	6	9
75°	1	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2654.2
1°	2652.9
2°	2658.0
3°	2673.1
4°	2695.8
5°	2722.3
6°	2755.1
7°	2790.5
8°	2827.1
9°	2870.0
10°	2915.4
11°	2960.9
12°	3008.8
13°	3054.3
14°	3095.9
15°	3128.7
16°	3152.7
17°	3169.1
18°	3176.7
19°	3175.4
20°	3166.6
21°	3151.4
22°	3132.5
23°	3107.3
24°	3078.2
25°	3042.9
26°	3001.3
27°	2948.2
28°	2885.1
29°	2811.9
30°	2727.4
32.5°	2473.7
35°	2163.2
37.5°	1802.3
40°	1408.5
42.5°	1041.2
45°	744.6
47.5°	527.6
50°	363.5
52.5°	232.2
55°	133.8
57.5°	66.9
60°	29.0
62.5°	11.4
65°	6.3



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	3.8
70°	2.5
72.5°	2.5
75°	1.3
77.5°	1.3
80°	1.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)