

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: P243808

Luminaire Tested: **LSR8B40D010 EC8B40830 8LBW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P243808
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 EC8B40830 8LBW0LI
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4464.9 lumens
Efficiency: N/A
Efficacy: 109.2 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

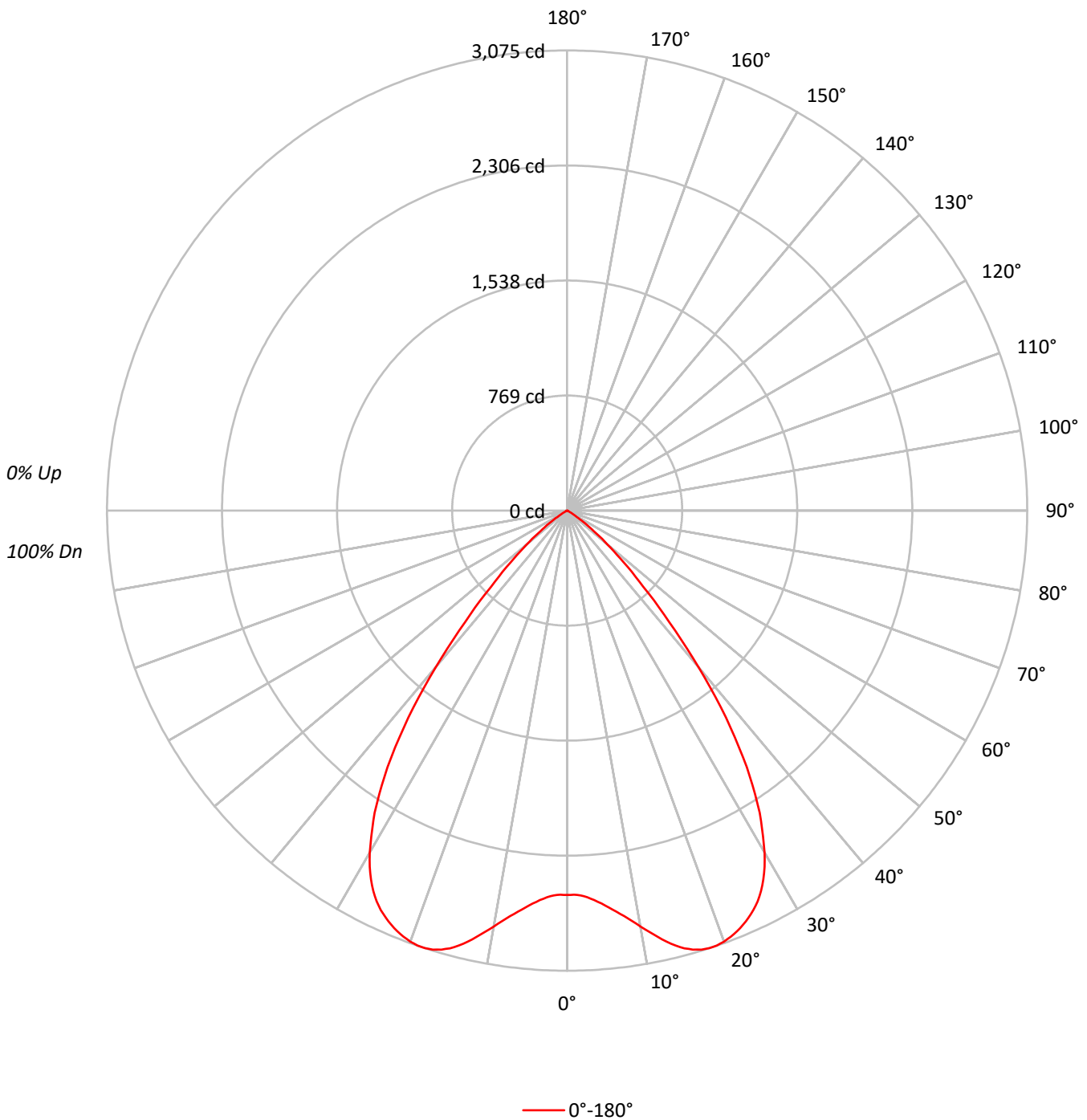
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	100	100	96	95	94	92		
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92	92	92	88	86	84	84		
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84	84	81	78	77	77	77		
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77	77	77	77	77	77	77		
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	72	70	70	70	70	70	70	70		
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64	64	64	64	64	64	64		
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	63	60	58	58	58	58	58	58	58		
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54	54	54	54	54	54	54		
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	49	49	49	49	49	49	49		
9	70	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45	45	45	45	45	45	45		
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42	42	42	42	42	42	42		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	79218
5°	81564
10°	88359
15°	96676
20°	100579
25°	100211
30°	93998
35°	78819
40°	54878
45°	31429
50°	16877
55°	6962
60°	1733
65°	445
70°	216
75°	143
80°	213
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.6	5.8
10°-20°	853.5	19.1
20°-30°	1343.0	30.1
30°-40°	1277.4	28.6
40°-50°	588.9	13.2
50°-60°	133.8	3.0
60°-70°	8.8	0.2
70°-80°	1.7	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°	2454.1	55.0
0°-40°	3731.5	83.6
0°-60°	4454.2	99.8
0°-90°	4464.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4464.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2569	
5°	2635	258
15°	3028	854
25°	2945	1343
35°	2094	1277
45°	721	589
55°	130	134
65°	6	9
75°	1	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2569.0
1°	2567.8
2°	2572.7
3°	2587.3
4°	2609.3
5°	2635.0
6°	2666.7
7°	2701.0
8°	2736.4
9°	2777.9
10°	2821.9
11°	2865.9
12°	2912.3
13°	2956.3
14°	2996.6
15°	3028.3
16°	3051.6
17°	3067.4
18°	3074.8
19°	3073.5
20°	3065.0
21°	3050.3
22°	3032.0
23°	3007.6
24°	2979.5
25°	2945.3
26°	2905.0
27°	2853.7
28°	2792.6
29°	2721.7
30°	2639.9
32.5°	2394.3
35°	2093.8
37.5°	1744.4
40°	1363.3
42.5°	1007.8
45°	720.7
47.5°	510.6
50°	351.8
52.5°	224.8
55°	129.5
57.5°	64.7
60°	28.1
62.5°	11.0
65°	6.1



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	3.7
70°	2.4
72.5°	2.4
75°	1.2
77.5°	1.2
80°	1.2
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)