

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: P243970

Luminaire Tested: **LSR8B40D010 EC8B40850 8LBM0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P243970
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-11)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B40D010 EC8B40850 8LBM0LI
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4624.0 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 0.63 / 0.63 / 0.72
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

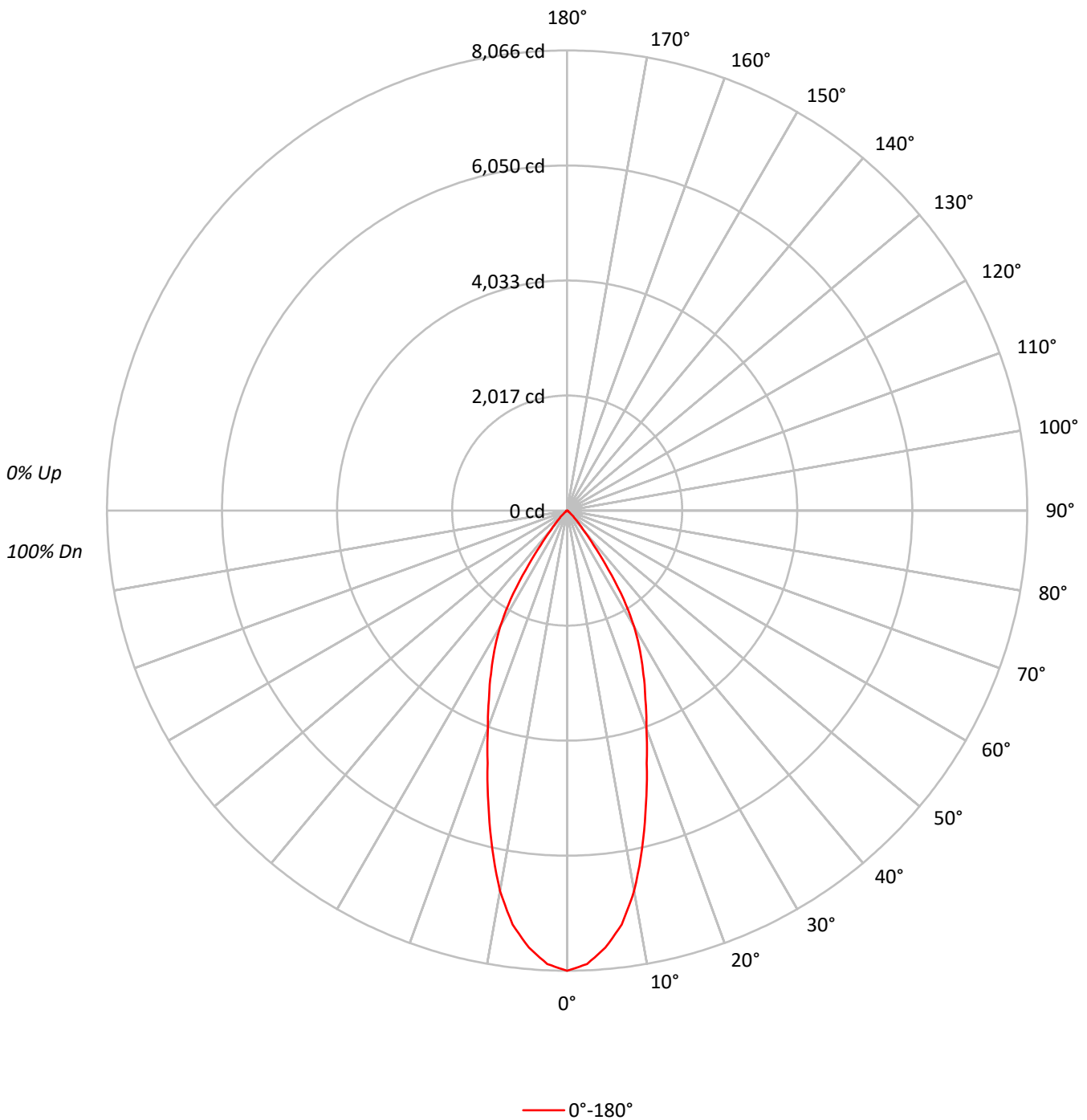
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	109	107	111	109	107	105	105	104	102		101	100	99		98	97	96	94
2	109	104	101	97	107	103	99	96	99	97	94		96	94	92		94	92	90	89
3	104	98	93	90	102	97	92	89	94	90	88		92	89	86		89	87	85	83
4	99	92	87	83	97	91	86	83	89	85	82		87	84	81		85	82	80	78
5	95	87	82	78	93	86	81	77	84	80	77		83	79	76		81	78	75	74
6	90	82	77	73	89	81	76	73	80	75	72		79	75	72		77	74	71	70
7	86	78	72	69	85	77	72	68	76	71	68		75	71	68		74	70	67	66
8	83	74	68	65	82	73	68	65	72	68	64		71	67	64		70	67	64	62
9	79	70	65	61	78	70	65	61	69	64	61		68	64	61		67	63	60	59
10	76	67	62	58	75	67	61	58	66	61	58		65	61	58		64	60	58	56

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	248741
5°	238049
10°	211926
15°	170251
20°	133345
25°	107662
30°	83427
35°	47518
40°	17925
45°	7728
50°	3109
55°	1161
60°	623
65°	423
70°	261
75°	167
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	705.9	15.3
10°-20°	1480.9	32.0
20°-30°	1449.1	31.3
30°-40°	801.8	17.3
40°-50°	155.2	3.4
50°-60°	23.8	0.5
60°-70°	5.9	0.1
70°-80°	1.5	0.0
80°-90°	0.0	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°	3635.9	78.6
0°-40°	4437.6	96.0
0°-60°	4616.6	99.8
0°-90°	4624.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4624.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8066	
5°	7690	706
15°	5333	1481
25°	3164	1449
35°	1262	802
45°	177	155
55°	22	24
65°	6	6
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	8066.5
2.5°	7955.5
5°	7690.4
7.5°	7318.6
10°	6768.2
12.5°	6072.2
15°	5333.0
17.5°	4639.9
20°	4063.5
22.5°	3586.6
25°	3164.3
27.5°	2766.6
30°	2343.0
32.5°	1845.9
35°	1262.3
37.5°	759.4
40°	445.3
42.5°	278.1
45°	177.2
47.5°	111.0
50°	64.8
52.5°	36.0
55°	21.6
57.5°	13.0
60°	10.1
62.5°	7.2
65°	5.8
67.5°	4.3
70°	2.9
72.5°	1.4
75°	1.4
77.5°	1.4
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)