

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: P247046

Luminaire Tested: **LSR8B80D010 EC8B80827 8LBW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247046
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25264)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80827 8LBW0LI
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8363.0 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.22
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

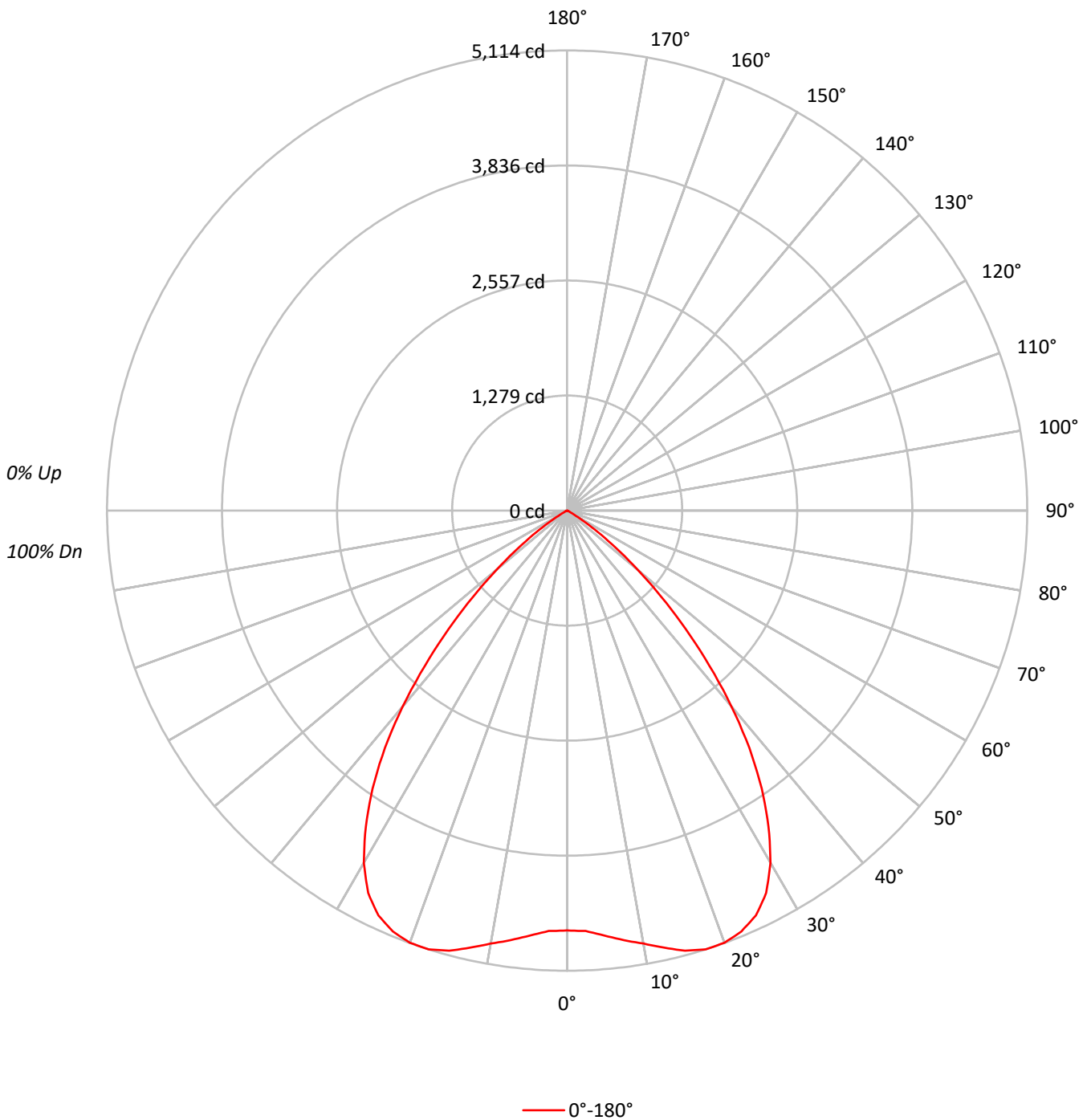
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	94	92					92			
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83					83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75					75			
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	68					68			
5	87	77	70	65	85	76	70	65	74	69	64	73	68	64	71	67	63	62					62			
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56					56			
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51					51			
8	72	61	54	49	71	60	54	49	59	53	49	58	52	48	57	52	48	47					47			
9	68	56	50	45	66	56	49	45	55	49	45	54	48	45	53	48	44	43					43			
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39					39			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	143904
5°	146713
10°	153003
15°	161651
20°	167709
25°	168926
30°	160939
35°	141960
40°	114438
45°	81248
50°	48832
55°	21999
60°	5674
65°	1226
70°	604
75°	405
80°	195
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.2	5.5
10°-20°	1431.6	17.1
20°-30°	2264.0	27.1
30°-40°	2326.3	27.8
40°-50°	1443.0	17.3
50°-60°	409.1	4.9
60°-70°	27.6	0.3
70°-80°	3.7	0.0
80°-90°	0.4	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°	4152.8	49.7
0°-40°	6479.1	77.5
0°-60°	8331.2	99.6
0°-90°	8363.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8363.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4667	
5°	4740	457
15°	5064	1432
25°	4965	2264
35°	3771	2326
45°	1863	1443
55°	409	409
65°	17	28
75°	3	4
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4666.7
2.5°	4675.7
5°	4739.7
7.5°	4814.7
10°	4886.4
12.5°	4975.0
15°	5063.6
17.5°	5114.0
20°	5110.7
22.5°	5061.3
25°	4964.9
27.5°	4790.1
30°	4519.9
32.5°	4164.5
35°	3771.1
37.5°	3326.1
40°	2842.9
42.5°	2340.6
45°	1863.1
47.5°	1419.2
50°	1017.9
52.5°	685.0
55°	409.2
57.5°	210.8
60°	92.0
62.5°	37.0
65°	16.8
67.5°	10.1
70°	6.7
72.5°	4.5
75°	3.4
77.5°	2.3
80°	1.1
82.5°	1.1
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)