

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: P243862

Luminaire Tested: **LSR8B40D010 EC8B409727 8LBWOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P243862
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 EC8B409727 8LBW0LI
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3233.0 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.17
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

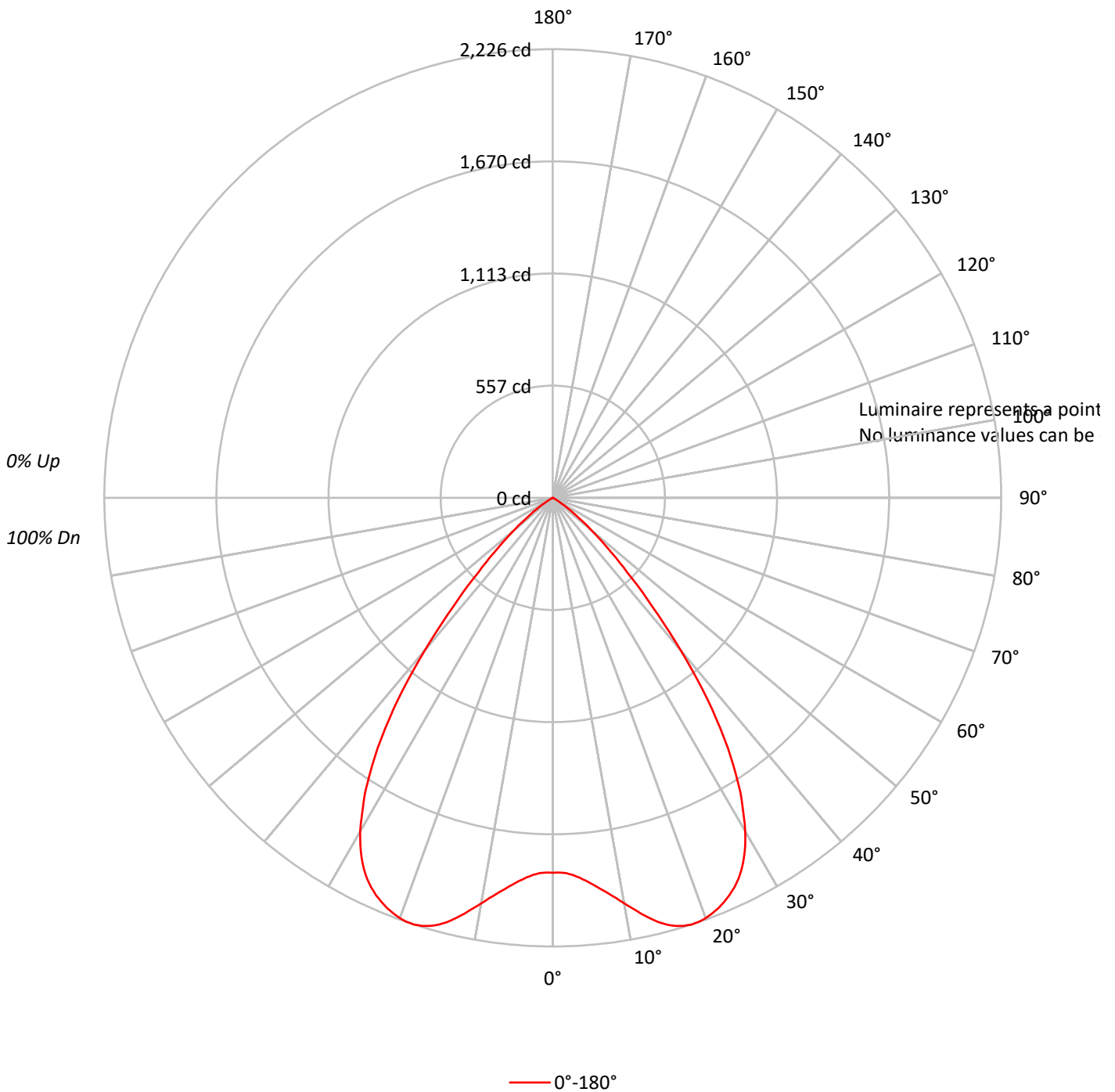
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.5	5.8
10°-20°	618.0	19.1
20°-30°	972.4	30.1
30°-40°	925.0	28.6
40°-50°	426.4	13.2
50°-60°	96.9	3.0
60°-70°	6.4	0.2
70°-80°	1.3	0.0
80°-90°	0.1	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°	1776.9	55.0
0°-40°	2701.9	83.6
0°-60°	3225.2	99.8
0°-90°	3233.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3233.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1860	
5°	1908	187
15°	2193	618
25°	2133	972
35°	1516	925
45°	522	426
55°	94	97
65°	4	6
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1860.2
1°	1859.3
2°	1862.8
3°	1873.4
4°	1889.4
5°	1907.9
6°	1930.9
7°	1955.7
8°	1981.3
9°	2011.4
10°	2043.3
11°	2075.1
12°	2108.7
13°	2140.6
14°	2169.8
15°	2192.8
16°	2209.6
17°	2221.1
18°	2226.4
19°	2225.5
20°	2219.3
21°	2208.7
22°	2195.4
23°	2177.7
24°	2157.4
25°	2132.6
26°	2103.4
27°	2066.3
28°	2022.0
29°	1970.7
30°	1911.5
32.5°	1733.7
35°	1516.1
37.5°	1263.1
40°	987.1
42.5°	729.7
45°	521.9
47.5°	369.7
50°	254.7
52.5°	162.8
55°	93.8
57.5°	46.9
60°	20.3
62.5°	8.0
65°	4.4



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	2.7
70°	1.8
72.5°	1.8
75°	0.9
77.5°	0.9
80°	0.9
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)