

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: P247584

Luminaire Tested: **LSR8B100D010 EC8B100835 8LBW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247584
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-62)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100835 8LBW0B
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7186.0 lumens
Efficiency: N/A
Efficacy: 67.6 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.07 / 1.01
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

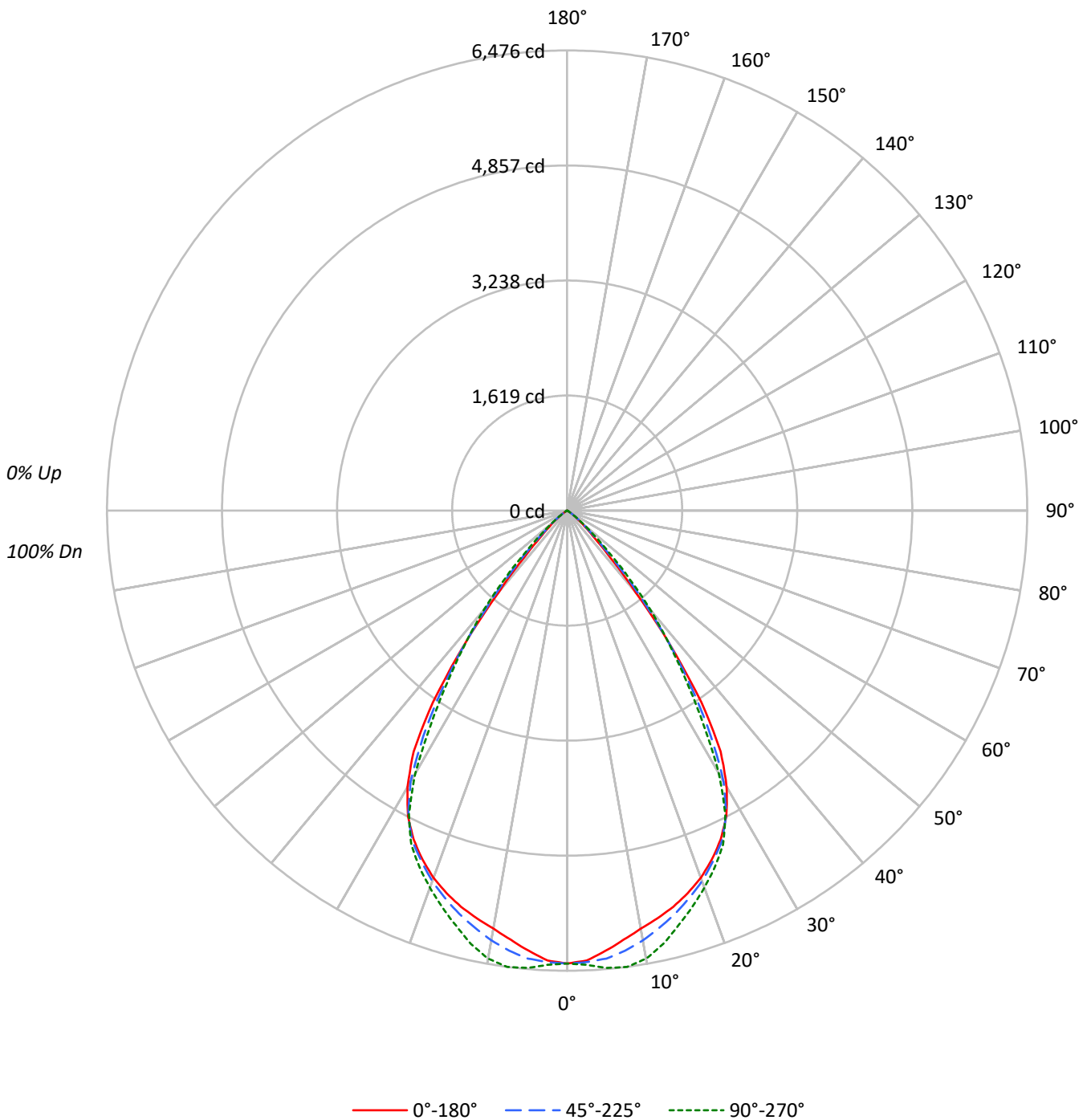
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100	100	100		
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	93	93	93	93	93		
2	107	102	98	95	105	101	97	94	97	94	91	94	92	90	92	89	88	86	86	86	86	86	86	86		
3	102	95	90	86	100	93	89	85	91	87	84	88	85	82	86	83	81	79	79	79	79	79	79	79		
4	96	88	82	78	94	87	82	77	85	80	77	83	79	76	81	78	75	73	73	73	73	73	73	73		
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68	68	68	68	68	68	68		
6	86	77	70	66	84	76	70	65	74	69	65	73	68	65	71	67	64	63	63	63	63	63	63	63		
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58	58	58	58	58	58	58		
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55	54	54	54	54	54	54	54		
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50	50	50	50	50	50	50		
10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	52	48	47	47	47	47	47	47	47		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	196545	196545	196545
5°	192510	195890	199991
10°	187086	192293	200472
15°	184231	187509	193026
20°	180461	182125	185279
25°	173802	175040	176585
30°	159906	156808	152180
35°	123906	115443	109673
40°	60208	68315	73178
45°	23292	29977	36326
50°	10909	12468	14277
55°	4543	4892	5032
60°	1523	1443	1363
65°	190	285	285
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	599.1	8.3
10°-20°	1658.0	23.1
20°-30°	2336.3	32.5
30°-40°	1890.1	26.3
40°-50°	600.0	8.4
50°-60°	95.9	1.3
60°-70°	6.5	0.1
70°-80°	0.0	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°	4593.4	63.9
0°-40°	6483.5	90.2
0°-60°	7179.5	99.9
0°-90°	7186.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7186.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6374	6374	6374	6374	6374	
5°	6219	6248	6328	6421	6461	586
15°	5771	5793	5874	5985	6046	1625
25°	5108	5117	5145	5173	5190	2332
35°	3292	3202	3067	2956	2913	1952
45°	534	577	687	785	833	498
55°	84	86	91	95	94	88
65°	3	4	4	4	4	6
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6373.8	6373.8	6373.8	6373.8	6373.8
2.5°	6337.5	6344.0	6359.5	6389.4	6398.5
5°	6219.2	6247.8	6328.4	6420.6	6460.9
7.5°	6091.9	6129.5	6247.8	6403.7	6476.5
10°	5974.9	6015.2	6141.2	6307.6	6402.4
12.5°	5876.1	5907.3	6010.0	6159.4	6247.8
15°	5770.9	5793.0	5873.6	5985.3	6046.4
17.5°	5644.8	5664.3	5717.6	5804.7	5851.5
20°	5499.3	5504.5	5550.0	5605.9	5646.1
22.5°	5318.7	5323.9	5349.9	5403.1	5430.4
25°	5108.2	5117.3	5144.6	5173.1	5190.0
27.5°	4849.6	4853.5	4840.5	4817.1	4822.3
30°	4490.9	4476.6	4403.9	4303.8	4273.9
32.5°	4020.5	3925.7	3768.4	3628.1	3570.9
35°	3291.5	3201.9	3066.7	2956.3	2913.4
37.5°	2365.0	2371.5	2362.4	2337.7	2342.9
40°	1495.7	1555.5	1697.1	1789.4	1817.9
42.5°	897.9	962.9	1118.8	1243.6	1283.9
45°	534.1	577.0	687.4	784.9	833.0
47.5°	343.1	363.8	418.4	475.6	502.9
50°	227.4	237.8	259.9	285.9	297.6
52.5°	145.5	149.4	159.8	168.9	178.0
55°	84.5	85.8	91.0	94.9	93.6
57.5°	44.2	44.2	44.2	44.2	44.2
60°	24.7	23.4	23.4	23.4	22.1
62.5°	11.7	11.7	11.7	10.4	10.4
65°	2.6	3.9	3.9	3.9	3.9
67.5°	0.0	0.0	0.0	0.0	1.3
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)