

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: P247681

Luminaire Tested: **LSR8B120D010 EC8B120835 8LBW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247681
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-63)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120835 8LBW0MW
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12751.0 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.09 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

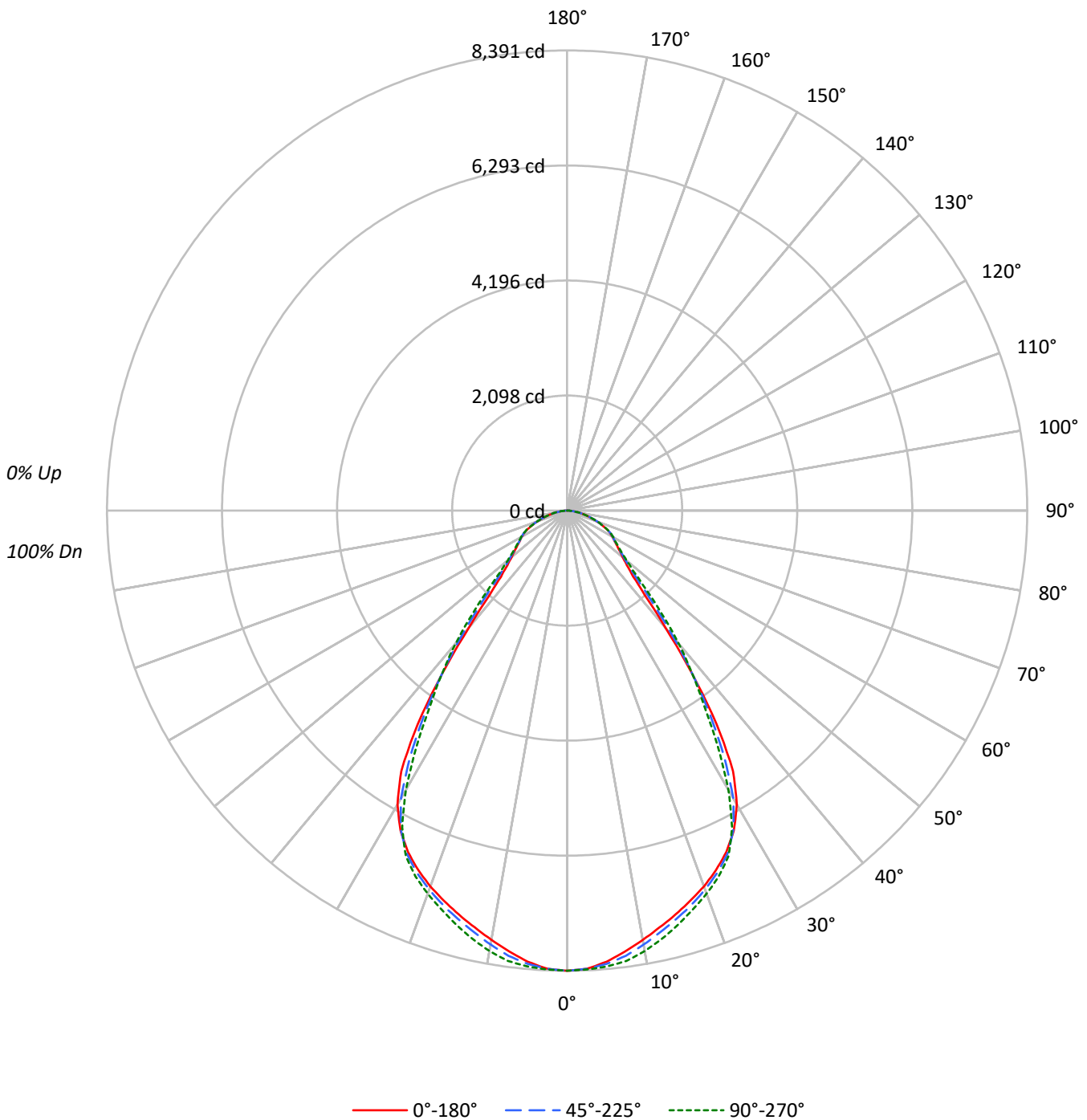
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P247681

CATALOG NUMBER: LSR8B120D010 EC8B120835 8LBW0MW

Luminous Intensity Polar Plot





TEST NUMBER: P247681

CATALOG NUMBER: LSR8B120D010 EC8B120835 8LBW0MW

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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89					89			
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78					78			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63					63			
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	57					57			
6	79	67	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51					51			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47					47			
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43					43			
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40					40			
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	258751	258751	258751
5°	255588	256820	258278
10°	248902	251670	255359
15°	243469	246055	249583
20°	239293	241324	243982
25°	233671	235124	236679
30°	220306	215584	209239
35°	178844	170803	164260
40°	111842	121386	127259
45°	74524	81523	88461
50°	63535	65440	67704
55°	59401	60191	61062
60°	58873	59237	59779
65°	57402	58044	58474
70°	52067	52464	52860
75°	45453	45989	46156
80°	38712	38712	39760
85°	31277	31277	31277



TEST NUMBER: P247681

CATALOG NUMBER: LSR8B120D010 EC8B120835 8LBW0MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	784.1	6.1
10°-20°	2175.4	17.1
20°-30°	3144.9	24.7
30°-40°	2814.5	22.1
40°-50°	1523.1	11.9
50°-60°	1015.2	8.0
60°-70°	777.5	6.1
70°-80°	412.0	3.2
80°-90°	104.2	0.8
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°	6104.4	47.9
0°-40°	8919.0	69.9
0°-60°	11457.3	89.9
0°-90°	12751.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12751.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8391	8391	8391	8391	8391	
5°	8257	8261	8297	8329	8344	778
15°	7626	7641	7708	7783	7818	2152
25°	6868	6884	6910	6943	6956	3142
35°	4751	4702	4537	4406	4364	2876
45°	1709	1759	1869	1986	2028	1406
55°	1105	1109	1120	1131	1136	999
65°	787	790	796	801	801	771
75°	382	382	386	387	387	410
85°	88	88	88	90	88	105
90°	0	0	0	0	0	



TEST NUMBER: P247681

CATALOG NUMBER: LSR8B120D010 EC8B120835 8LBW0MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	<i>8391.1</i>	<i>8391.1</i>	<i>8391.1</i>	<i>8391.1</i>	<i>8391.1</i>
2.5°	<i>8363.1</i>	8360.1	8361.6	8370.4	8374.8
5°	<i>8257.0</i>	8261.4	8296.8	8329.2	8343.9
7.5°	<i>8108.2</i>	8127.4	8187.8	8251.1	8283.5
10°	<i>7949.1</i>	7968.3	8037.5	8127.4	8155.3
12.5°	<i>7785.6</i>	7809.2	7871.0	7962.4	7996.2
15°	<i>7626.5</i>	7641.2	7707.5	7782.6	7818.0
17.5°	<i>7463.0</i>	7477.7	7538.1	7597.0	7625.0
20°	<i>7292.1</i>	7308.3	7354.0	7404.0	7435.0
22.5°	<i>7096.2</i>	7112.4	7150.7	7194.9	7222.8
25°	<i>6867.8</i>	6884.0	6910.5	6942.9	6956.2
27.5°	<i>6579.1</i>	6589.4	6564.3	6537.8	6514.3
30°	<i>6187.2</i>	6154.8	6054.6	5926.5	5876.4
32.5°	<i>5630.4</i>	5525.8	5332.8	5176.6	5119.2
35°	<i>4750.9</i>	4702.3	4537.3	4406.2	4363.5
37.5°	<i>3725.6</i>	3758.0	3746.2	3737.4	3746.2
40°	<i>2778.4</i>	2853.5	3015.5	3126.0	3161.4
42.5°	<i>2103.7</i>	2175.8	2358.5	2511.7	2564.8
45°	<i>1708.9</i>	1758.9	1869.4	1985.8	2028.5
47.5°	<i>1474.6</i>	1502.6	1558.6	1620.5	1641.1
50°	<i>1324.4</i>	1336.1	1364.1	1399.5	1411.3
52.5°	<i>1205.0</i>	1210.9	1227.1	1246.3	1249.2
55°	<i>1104.9</i>	1109.3	1119.6	1131.4	1135.8
57.5°	<i>1020.9</i>	1025.3	1028.3	1035.6	1038.6
60°	<i>954.6</i>	954.6	960.5	966.4	969.3
62.5°	<i>882.4</i>	882.4	888.3	894.2	894.2
65°	<i>786.7</i>	789.6	795.5	801.4	801.4
67.5°	<i>682.1</i>	683.5	688.0	693.9	692.4
70°	<i>577.5</i>	577.5	581.9	584.8	586.3
72.5°	<i>477.3</i>	475.8	483.2	484.7	480.2
75°	<i>381.5</i>	381.5	386.0	387.4	387.4
77.5°	<i>297.6</i>	296.1	296.1	297.6	299.0
80°	<i>218.0</i>	219.5	218.0	221.0	223.9
82.5°	<i>151.7</i>	150.3	150.3	150.3	148.8
85°	<i>88.4</i>	88.4	88.4	89.9	88.4
87.5°	<i>35.4</i>	35.4	33.9	33.9	32.4
90°	<i>0.0</i>	0.0	0.0	0.0	0.0

(END OF REPORT)