

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: P247413

Luminaire Tested: **LSR8B120D010 EC8B120935 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247413
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13927)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120935 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10930.9 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.12
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

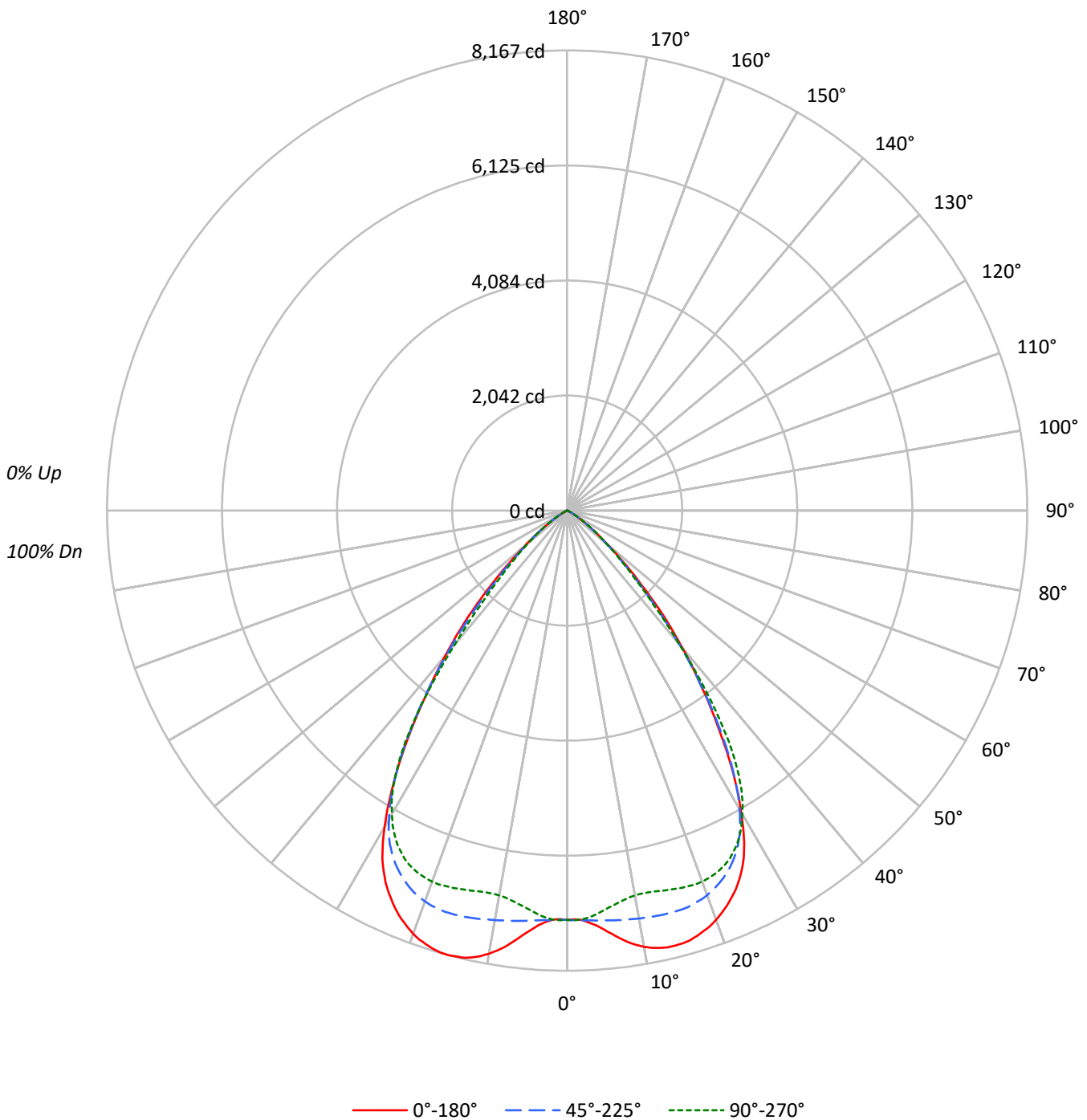
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P247413

CATALOG NUMBER: LSR8B120D010 EC8B120935 8LBW0WH

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	96	95	94	92		
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92	92	92	90	88	86	84		
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84	84	84	83	81	78	76		
3	100	93	87	83	98	91	86	82	89	84	81	86	83	79	84	81	78	76	76	76	75	73	71	70		
4	94	85	79	74	92	84	79	74	82	77	73	80	76	72	78	74	71	70	70	70	69	67	65	64		
5	88	79	72	67	87	78	72	67	76	71	67	74	70	66	73	69	65	64	64	64	63	61	59	58		
6	83	73	66	61	81	72	66	61	71	65	61	69	64	60	68	63	60	58	58	58	57	55	53	52		
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	53	53	53	52	50	48	47		
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49	49	49	48	46	44	43		
9	70	59	52	48	68	58	52	48	57	51	47	56	51	47	55	50	47	45	45	45	44	42	40	39		
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42	42	42	41	39	37	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	224050	224050	224050
5°	230927	220895	231311
10°	246163	217168	250030
15°	253736	222498	260727
20°	253728	229927	262336
25°	245957	232092	254779
30°	220138	221456	230689
35°	175335	188462	185096
40°	128100	124622	135426
45°	81837	72958	88976
50°	44274	43382	47531
55°	22730	23564	22730
60°	9898	9898	7234
65°	2028	2707	2255
70°	1388	1947	2218
75°	0	1108	0
80°	533	533	2184
85°	0	1061	0



TEST NUMBER: P247413

CATALOG NUMBER: LSR8B120D010 EC8B120935 8LBW0WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	700.3	6.4
10°-20°	2107.1	19.3
20°-30°	3207.1	29.3
30°-40°	2984.6	27.3
40°-50°	1452.6	13.3
50°-60°	413.9	3.8
60°-70°	54.1	0.5
70°-80°	8.5	0.1
80°-90°	2.6	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°	6014.6	55.0
0°-40°	8999.2	82.3
0°-60°	10865.8	99.4
0°-90°	10930.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10930.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7266	7266	7266	7266	7266	
5°	7460	7297	7136	7303	7473	727
15°	7948	7371	6970	7442	8167	2236
25°	7229	6914	6821	7065	7488	3281
35°	4658	4722	5006	4954	4917	2896
45°	1877	1738	1673	1874	2040	1483
55°	423	423	438	429	423	415
65°	28	34	37	34	31	53
75°	0	3	9	3	0	6
85°	0	3	3	6	0	1
90°	0	0	0	0	0	



TEST NUMBER: P247413

CATALOG NUMBER: LSR8B120D010 EC8B120935 8LBW0WH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	7265.8	7265.8	7265.8	7265.8	7265.8	7265.8	7265.8	7265.8	7265.8
1°	7256.6	7265.8	7272.1	7269.0	7272.1	7269.0	7262.8	7250.5	7250.5
2°	7269.0	7281.3	7278.2	7272.1	7262.8	7262.8	7281.3	7256.6	7262.8
3°	7318.3	7318.3	7281.3	7247.4	7235.0	7247.4	7278.2	7296.7	7312.2
4°	7380.1	7367.7	7293.7	7216.5	7191.8	7222.6	7290.6	7349.2	7380.1
5°	7460.3	7423.2	7296.7	7179.4	7136.2	7182.5	7302.9	7414.0	7472.7
6°	7553.0	7497.3	7315.3	7139.3	7083.8	7148.6	7321.5	7491.2	7580.7
7°	7645.6	7556.0	7324.5	7108.4	7037.4	7127.0	7336.9	7577.6	7694.9
8°	7732.0	7611.5	7333.8	7080.7	6994.2	7086.8	7349.2	7654.7	7809.1
9°	7803.0	7664.0	7339.9	7059.1	6957.2	7062.2	7364.7	7722.7	7904.8
10°	7861.6	7704.1	7352.4	7046.7	6935.6	7049.9	7380.1	7781.4	7985.1
11°	7907.9	7732.0	7355.4	7040.6	6926.4	7040.6	7392.4	7840.0	8053.0
12°	7935.6	7756.6	7364.7	7043.6	6929.4	7049.9	7410.9	7864.7	8108.5
13°	7954.2	7765.9	7370.8	7052.9	6935.6	7056.0	7423.2	7886.3	8145.5
14°	7954.2	7759.8	7370.8	7062.2	6954.2	7068.3	7432.5	7901.7	8154.8
15°	7948.1	7756.6	7370.8	7077.6	6969.6	7080.7	7441.8	7911.0	8167.1
16°	7929.5	7738.1	7367.7	7086.8	6984.9	7093.1	7444.8	7904.8	8158.0
17°	7892.4	7728.9	7355.4	7096.1	7000.4	7105.4	7444.8	7889.4	8136.2
18°	7843.0	7664.0	7324.5	7086.8	7003.5	7102.3	7426.4	7849.2	8096.2
19°	7799.8	7627.0	7302.9	7080.7	7015.8	7111.6	7414.0	7821.4	8053.0
20°	7732.0	7565.3	7265.8	7062.2	7006.7	7093.1	7383.2	7772.1	7994.3
21°	7648.6	7494.3	7213.4	7031.3	6991.2	7068.3	7339.9	7704.1	7914.0
22°	7565.3	7414.0	7157.8	7000.4	6966.5	7046.7	7293.7	7633.1	7830.7
23°	7466.4	7324.5	7086.8	6948.0	6929.4	6997.4	7228.9	7556.0	7732.0
24°	7355.4	7219.6	7009.7	6889.3	6883.2	6944.9	7154.8	7454.1	7614.7
25°	7228.9	7108.4	6914.0	6815.2	6821.4	6873.9	7065.2	7339.9	7488.2
26°	7077.6	6966.5	6802.9	6725.8	6735.0	6787.5	6963.3	7207.3	7349.2
27°	6907.8	6805.9	6673.3	6617.6	6642.4	6688.7	6840.0	7062.2	7176.4
28°	6694.9	6614.6	6518.9	6494.3	6525.2	6577.6	6704.2	6886.2	6988.1
29°	6447.9	6404.7	6330.6	6343.0	6386.2	6429.4	6534.3	6667.1	6747.4
30°	6182.5	6164.0	6120.8	6170.2	6219.5	6256.6	6327.6	6417.0	6478.8
31°	5910.9	5889.3	5895.4	5975.7	6049.7	6074.4	6114.5	6157.7	6204.1
32°	5605.3	5599.1	5623.7	5741.1	5836.8	5849.1	5852.2	5864.5	5889.3
33°	5293.6	5284.3	5333.7	5478.8	5586.8	5596.1	5571.3	5559.0	5577.5
34°	4969.5	4969.5	5034.3	5185.6	5312.1	5321.2	5272.0	5265.7	5247.2
35°	4657.7	4648.4	4722.5	4864.5	5006.4	5009.6	4954.0	4920.0	4917.0
37.5°	3886.0	3870.6	3895.3	3969.3	4074.3	4129.9	4123.7	4111.4	4102.1
40°	3182.3	3145.3	3095.9	3065.0	3095.9	3210.1	3308.8	3355.2	3364.3
42.5°	2518.7	2466.2	2361.3	2274.8	2287.2	2392.2	2543.4	2648.3	2700.8
45°	1876.6	1824.1	1737.8	1673.0	1673.0	1747.0	1873.6	1981.6	2040.3
47.5°	1339.6	1305.7	1256.2	1228.4	1247.0	1277.8	1348.9	1429.2	1453.8
50°	922.9	913.6	885.9	885.9	904.3	929.1	941.4	981.6	990.8
52.5°	645.1	629.6	632.7	635.9	651.2	654.4	672.8	663.6	679.1
55°	422.8	422.8	422.8	432.1	438.3	438.3	429.0	422.8	422.8
57.5°	268.6	262.4	265.4	271.6	271.6	262.4	247.0	243.8	228.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	160.5	160.5	163.6	163.6	160.5	151.2	135.8	123.5	117.3
62.5°	83.3	86.4	86.4	101.9	86.4	77.1	71.0	55.5	52.5
65°	27.8	33.9	33.9	33.9	37.1	33.9	33.9	30.9	30.9
67.5°	18.5	21.6	21.6	24.6	24.6	24.6	24.6	30.9	21.6
70°	15.4	15.4	18.5	21.6	21.6	24.6	18.5	15.4	24.6
72.5°	9.3	12.3	9.3	15.4	12.3	12.3	12.3	12.3	12.3
75°	0.0	6.2	3.0	0.0	9.3	6.2	3.0	6.2	0.0
77.5°	3.0	3.0	3.0	3.0	6.2	6.2	6.2	6.2	3.0
80°	3.0	3.0	6.2	3.0	3.0	6.2	0.0	0.0	12.3
82.5°	3.0	3.0	3.0	3.0	3.0	3.0	0.0	3.0	3.0
85°	0.0	3.0	3.0	3.0	3.0	3.0	6.2	6.2	0.0
87.5°	0.0	3.0	0.0	3.0	0.0	0.0	0.0	6.2	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)