

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: P247417

Luminaire Tested: **LSR8B120D010 EC8B120940 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247417
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 EC8B120940 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11417.0 lumens
Efficiency: N/A
Efficacy: 96.5 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

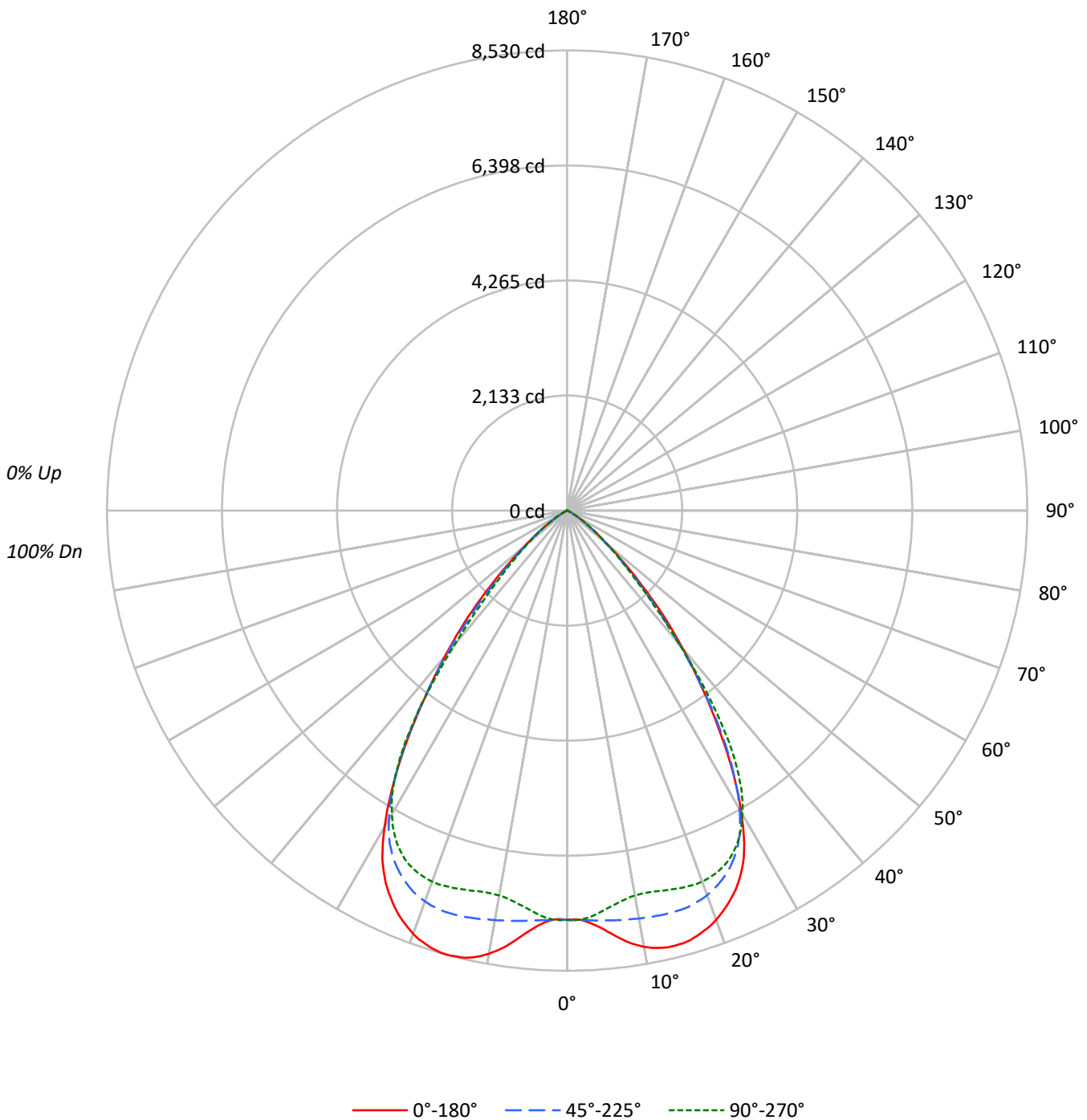
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P247417

CATALOG NUMBER: LSR8B120D010 EC8B120940 8LBW0WH

Luminous Intensity Polar Plot





TEST NUMBER: P247417

CATALOG NUMBER: LSR8B120D010 EC8B120940 8LBW0WH

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	234014	234014	234014
5°	241194	230716	241594
10°	257106	226824	261145
15°	265018	232388	272319
20°	265007	240149	274001
25°	256892	242412	266106
30°	229927	231301	240943
35°	183131	196841	193325
40°	133796	130161	141448
45°	85478	76198	92931
50°	46241	45310	49647
55°	23741	24612	23741
60°	10336	10336	7555
65°	2123	2824	2349
70°	1452	2038	2317
75°	0	1156	0
80°	568	568	2291
85°	0	1132	0



TEST NUMBER: P247417

CATALOG NUMBER: LSR8B120D010 EC8B120940 8LBW0WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	731.5	6.4
10°-20°	2200.8	19.3
20°-30°	3349.7	29.3
30°-40°	3117.3	27.3
40°-50°	1517.2	13.3
50°-60°	432.3	3.8
60°-70°	56.5	0.5
70°-80°	9.0	0.1
80°-90°	2.7	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°	6282.0	55.0
0°-40°	9399.3	82.3
0°-60°	11348.9	99.4
0°-90°	11417.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11417.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7589	7589	7589	7589	7589	
5°	7792	7621	7454	7628	7805	759
15°	8302	7698	7279	7773	8530	2336
25°	7550	7221	7125	7379	7821	3427
35°	4865	4932	5229	5174	5136	3025
45°	1960	1815	1747	1957	2131	1549
55°	442	442	458	448	442	433
65°	29	35	39	35	32	55
75°	0	3	10	3	0	6
85°	0	3	3	6	0	1
90°	0	0	0	0	0	



TEST NUMBER: P247417

CATALOG NUMBER: LSR8B120D010 EC8B120940 8LBW0WH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	7588.9	7588.9	7588.9	7588.9	7588.9	7588.9	7588.9	7588.9	7588.9
1°	7579.2	7588.9	7595.4	7592.2	7595.4	7592.2	7585.7	7572.8	7572.8
2°	7592.2	7605.1	7601.8	7595.4	7585.7	7585.7	7605.1	7579.2	7585.7
3°	7643.7	7643.7	7605.1	7569.6	7556.6	7569.6	7601.8	7621.1	7637.3
4°	7708.2	7695.3	7617.9	7537.4	7511.5	7543.8	7614.8	7675.9	7708.2
5°	7792.0	7753.3	7621.1	7498.6	7453.5	7501.8	7627.6	7743.6	7804.9
6°	7888.8	7830.7	7640.5	7456.7	7398.7	7466.4	7647.0	7824.3	7917.7
7°	7985.5	7892.0	7650.2	7424.5	7350.3	7443.8	7663.1	7914.5	8037.0
8°	8075.7	7949.9	7659.9	7395.5	7305.2	7401.9	7675.9	7995.1	8156.3
9°	8149.9	8004.7	7666.2	7373.0	7266.6	7376.2	7692.1	8066.1	8256.2
10°	8211.1	8046.7	7679.2	7360.0	7244.0	7363.3	7708.2	8127.4	8340.1
11°	8259.5	8075.7	7682.4	7353.6	7234.3	7353.6	7721.0	8188.5	8411.1
12°	8288.5	8101.5	7692.1	7356.8	7237.5	7363.3	7740.4	8214.4	8469.1
13°	8307.8	8111.2	7698.5	7366.5	7244.0	7369.7	7753.3	8237.0	8507.7
14°	8307.8	8104.8	7698.5	7376.2	7263.4	7382.5	7763.0	8253.0	8517.4
15°	8301.5	8101.5	7698.5	7392.2	7279.4	7395.5	7772.7	8262.7	8530.2
16°	8282.1	8082.1	7695.3	7401.9	7295.5	7408.4	7775.8	8256.2	8520.7
17°	8243.3	8072.6	7682.4	7411.6	7311.7	7421.3	7775.8	8240.2	8498.0
18°	8191.7	8004.7	7650.2	7401.9	7314.9	7418.1	7756.6	8198.2	8456.2
19°	8146.6	7966.1	7627.6	7395.5	7327.7	7427.8	7743.6	8169.2	8411.1
20°	8075.7	7901.6	7588.9	7376.2	7318.2	7408.4	7711.5	8117.7	8349.8
21°	7988.7	7827.5	7534.1	7343.9	7302.0	7382.5	7666.2	8046.7	8265.9
22°	7901.6	7743.6	7476.1	7311.7	7276.2	7360.0	7617.9	7972.5	8178.8
23°	7798.4	7650.2	7401.9	7256.9	7237.5	7308.5	7550.3	7892.0	8075.7
24°	7682.4	7540.6	7321.4	7195.6	7189.2	7253.7	7472.9	7785.5	7953.3
25°	7550.3	7424.5	7221.4	7118.2	7124.7	7179.5	7379.4	7666.2	7821.1
26°	7392.2	7276.2	7105.3	7024.8	7034.5	7089.3	7272.9	7527.7	7675.9
27°	7214.9	7108.5	6970.0	6911.9	6937.7	6986.0	7144.1	7376.2	7495.5
28°	6992.5	6908.7	6808.8	6783.0	6815.3	6870.1	7002.2	7192.4	7298.8
29°	6734.6	6689.5	6612.1	6625.0	6670.1	6715.2	6824.8	6963.5	7047.3
30°	6457.4	6438.0	6392.9	6444.5	6496.0	6534.7	6608.9	6702.3	6766.8
31°	6173.7	6151.1	6157.5	6241.4	6318.7	6344.5	6386.4	6431.5	6479.9
32°	5854.5	5848.0	5873.8	5996.4	6096.3	6109.2	6112.4	6125.2	6151.1
33°	5528.9	5519.2	5570.8	5722.4	5835.2	5844.9	5819.0	5806.1	5825.5
34°	5190.4	5190.4	5258.1	5416.1	5548.3	5557.8	5506.4	5499.8	5480.5
35°	4864.8	4855.1	4932.4	5080.8	5229.0	5232.3	5174.2	5138.8	5135.6
37.5°	4058.8	4042.7	4068.5	4145.8	4255.4	4313.5	4307.0	4294.2	4284.5
40°	3323.8	3285.2	3233.5	3201.3	3233.5	3352.8	3455.9	3504.4	3513.9
42.5°	2630.7	2575.9	2466.3	2375.9	2388.9	2498.5	2656.4	2766.0	2820.9
45°	1960.1	1905.2	1815.0	1747.3	1747.3	1824.7	1956.9	2069.7	2131.0
47.5°	1399.1	1363.7	1312.1	1283.0	1302.4	1334.7	1408.8	1492.7	1518.4
50°	963.9	954.2	925.3	925.3	944.5	970.4	983.3	1025.2	1034.9
52.5°	673.8	657.6	660.8	664.1	680.2	683.5	702.8	693.1	709.3
55°	441.6	441.6	441.6	451.3	457.8	457.8	448.1	441.6	441.6
57.5°	280.5	274.0	277.2	283.7	283.7	274.0	258.0	254.6	238.6



TEST NUMBER: P247417

CATALOG NUMBER: LSR8B120D010 EC8B120940 8LBW0WH

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	167.6	167.6	170.9	170.9	167.6	157.9	141.9	129.0	122.5
62.5°	87.0	90.2	90.2	106.4	90.2	80.5	74.2	58.0	54.8
65°	29.1	35.4	35.4	35.4	38.7	35.4	35.4	32.2	32.2
67.5°	19.4	22.6	22.6	25.7	25.7	25.7	25.7	32.2	22.6
70°	16.1	16.1	19.4	22.6	22.6	25.7	19.4	16.1	25.7
72.5°	9.7	12.9	9.7	16.1	12.9	12.9	12.9	12.9	12.9
75°	0.0	6.5	3.2	0.0	9.7	6.5	3.2	6.5	0.0
77.5°	3.2	3.2	3.2	3.2	6.5	6.5	6.5	6.5	3.2
80°	3.2	3.2	6.5	3.2	3.2	6.5	0.0	0.0	12.9
82.5°	3.2	3.2	3.2	3.2	3.2	3.2	0.0	3.2	3.2
85°	0.0	3.2	3.2	3.2	3.2	3.2	6.5	6.5	0.0
87.5°	0.0	3.2	0.0	3.2	0.0	0.0	0.0	6.5	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)