

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: P250172

Luminaire Tested: **LSR8B120D010 EC8B120935 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250172
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13942)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120935 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10547.0 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.8 / 0.85
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

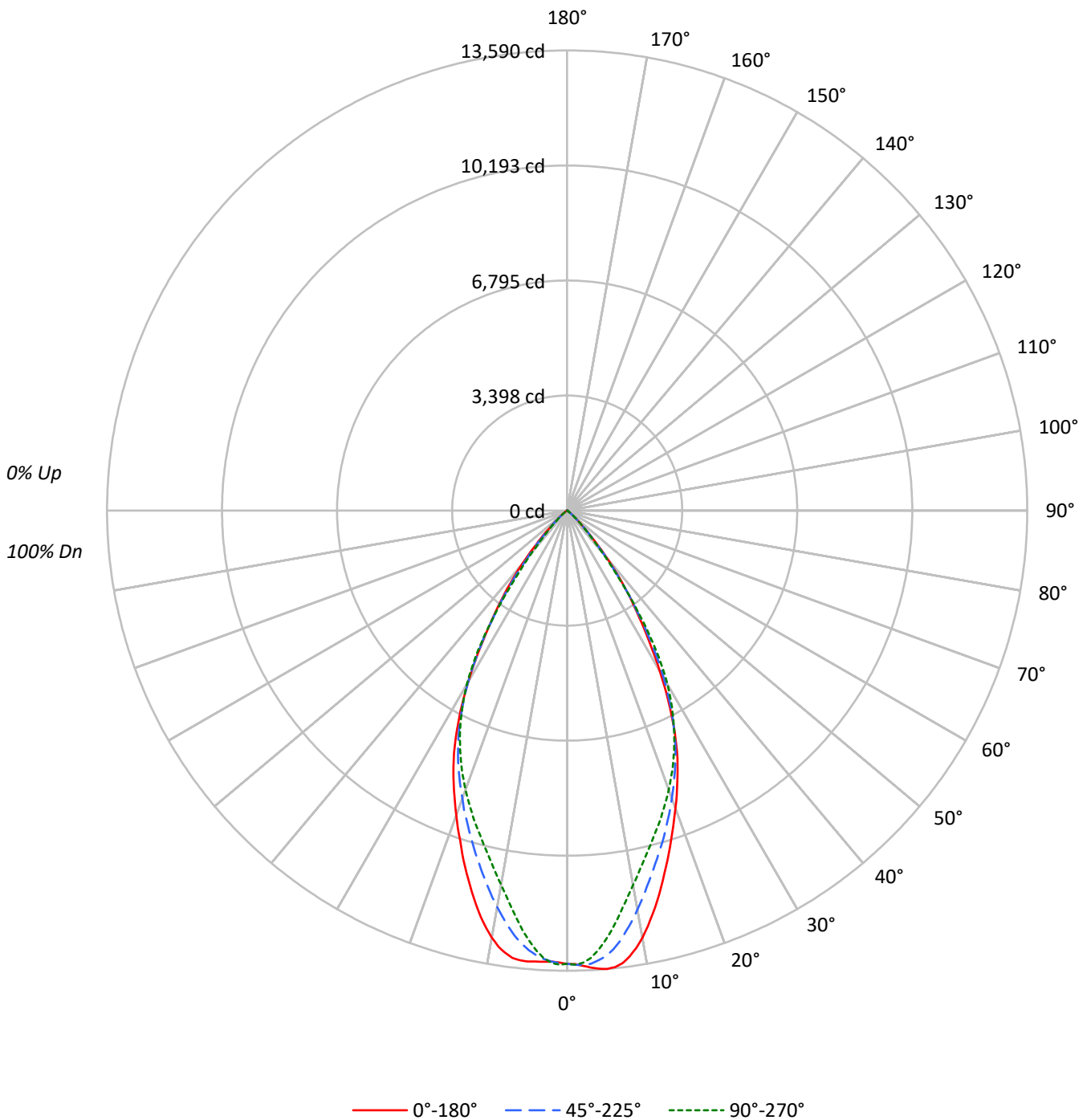
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94	94	94	94	94	94	94		
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87	87	87	87	87	87	87		
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81	81	81	81	81	81	81		
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76	76	76	76	76	76	76		
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71	71	71	71	71	71	71		
6	88	80	74	69	87	79	73	69	77	72	69	76	72	68	75	71	68	66	66	66	66	66	66	66		
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62	62	62	62	62	62	62		
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58	58	58	58	58	58	58		
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	64	59	56	55	55	55	55	55	55	55		
10	73	63	57	54	72	63	57	54	62	57	53	61	56	53	60	56	53	52	52	52	52	52	52	52		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	412747	412747	412747
5°	420669	395185	413819
10°	401079	351556	400975
15°	354166	317077	360190
20°	306922	287803	314180
25°	259322	254892	268841
30°	194904	211012	208228
35°	130471	137943	141497
40°	73097	62748	83841
45°	29379	25830	34913
50°	10146	9834	12022
55°	2801	3328	3150
60°	1603	2011	1807
65°	1423	1182	949
70°	0	884	586
75°	0	0	0
80°	0	0	586
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1215.1	11.5
10°-20°	2938.9	27.9
20°-30°	3444.5	32.7
30°-40°	2266.3	21.5
40°-50°	591.4	5.6
50°-60°	72.7	0.7
60°-70°	15.1	0.1
70°-80°	2.8	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°	7598.5	72.0
0°-40°	9864.9	93.5
0°-60°	10529.0	99.8
0°-90°	10547.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10547.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13385	13385	13385	13385	13385	
5°	13590	13203	12767	13030	13369	###
15°	11094	10466	9932	10466	11283	3092
25°	7622	7547	7492	7618	7902	3436
35°	3466	3544	3664	3700	3759	2170
45°	674	635	592	687	801	604
55°	52	55	62	62	59	69
65°	20	16	16	13	13	14
75°	0	3	0	0	0	2
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°	112.5°	135°	157.5°	180°
0°	13385.1	13385.1	13385.1	13385.1	13385.1	13385.1	13385.1	13385.1	13385.1
1°	13394.8	13414.4	13420.8	13440.4	13411.1	13391.6	13365.6	13346.0	13349.3
2°	13453.4	13463.2	13427.4	13414.4	13362.3	13346.0	13326.5	13323.2	13326.5
3°	13515.3	13495.7	13401.3	13313.5	13235.4	13225.6	13261.4	13313.5	13342.7
4°	13564.1	13512.0	13313.5	13150.7	13027.1	13017.4	13160.5	13293.9	13349.3
5°	13590.1	13495.7	13202.8	12929.5	12766.8	12828.6	13030.3	13267.9	13368.8
6°	13554.3	13414.4	13033.6	12669.1	12483.6	12565.0	12861.1	13206.1	13355.8
7°	13463.2	13284.2	12815.6	12386.0	12158.2	12285.1	12662.6	13101.9	13307.0
8°	13293.9	13079.2	12539.0	12057.3	11832.7	11975.9	12418.6	12952.2	13189.8
9°	13072.6	12835.1	12265.6	11757.9	11517.1	11686.3	12164.7	12753.7	13027.1
10°	12809.1	12555.2	11962.9	11445.5	11227.5	11386.9	11891.3	12522.6	12805.8
11°	12499.9	12255.8	11660.3	11152.6	10944.3	11100.6	11618.0	12246.1	12551.9
12°	12164.7	11940.2	11351.1	10869.5	10674.2	10823.9	11325.1	11959.7	12262.3
13°	11829.5	11604.9	11051.7	10596.1	10417.1	10560.3	11038.7	11647.3	11949.9
14°	11468.3	11263.2	10752.3	10335.7	10173.0	10309.7	10745.8	11331.6	11618.0
15°	11094.0	10931.3	10465.9	10085.1	9932.2	10062.4	10465.9	11006.1	11282.7
16°	10742.5	10592.8	10189.3	9837.8	9711.0	9815.0	10182.8	10680.8	10944.3
17°	10384.5	10247.9	9912.7	9593.8	9479.9	9580.8	9893.2	10352.0	10589.6
18°	10026.6	9912.7	9610.1	9336.7	9235.8	9326.9	9606.8	10020.1	10234.8
19°	9694.6	9590.5	9333.4	9102.4	9011.3	9092.6	9356.2	9701.2	9915.9
20°	9353.0	9268.3	9043.8	8855.0	8770.4	8845.2	9050.3	9385.5	9574.2
21°	9024.3	8949.4	8754.2	8594.7	8526.3	8588.2	8776.9	9079.6	9245.5
22°	8682.6	8640.3	8464.5	8331.1	8285.5	8324.6	8497.0	8757.4	8913.6
23°	8347.3	8308.3	8174.9	8064.3	8025.2	8064.3	8217.2	8451.5	8591.5
24°	8008.9	7966.6	7869.0	7797.3	7764.9	7797.3	7927.5	8126.0	8259.5
25°	7621.7	7615.2	7546.8	7507.7	7491.5	7527.2	7618.4	7790.9	7901.5
26°	7250.6	7231.1	7211.6	7205.1	7208.3	7227.8	7302.7	7432.9	7520.8
27°	6795.1	6824.4	6853.6	6892.7	6905.7	6922.0	6957.7	7052.1	7117.2
28°	6358.9	6414.3	6485.9	6564.0	6599.8	6599.8	6603.0	6655.1	6710.4
29°	5926.2	5984.7	6098.6	6215.8	6264.6	6258.1	6232.0	6254.8	6287.4
30°	5473.8	5548.6	5701.6	5854.6	5926.2	5900.1	5851.3	5828.5	5848.0
31°	5031.2	5106.1	5275.3	5441.2	5535.6	5506.4	5421.7	5405.5	5415.2
32°	4608.2	4683.0	4839.2	5014.9	5122.3	5083.3	4995.4	4969.4	4972.6
33°	4198.1	4256.7	4399.9	4562.6	4650.4	4640.6	4569.1	4536.6	4539.8
34°	3810.8	3859.7	3967.0	4090.7	4175.3	4172.0	4120.0	4123.2	4133.0
35°	3465.9	3491.9	3543.9	3612.3	3664.4	3693.6	3700.2	3726.2	3758.8
37.5°	2619.8	2629.5	2567.7	2499.3	2486.3	2571.0	2717.4	2844.3	2893.1
40°	1815.9	1793.1	1715.0	1594.6	1558.8	1653.2	1838.7	2017.7	2082.8
42.5°	1129.3	1119.5	1070.7	979.6	947.0	1002.4	1142.3	1279.0	1344.0
45°	673.7	660.6	634.6	598.8	592.3	615.0	686.6	764.7	800.6
47.5°	387.2	384.0	367.7	354.7	351.5	367.7	400.3	445.8	455.6
50°	211.5	208.3	205.0	205.0	205.0	214.8	231.1	244.1	250.6
52.5°	104.2	107.4	104.2	107.4	110.7	117.1	113.9	126.9	126.9
55°	52.1	48.8	55.3	61.9	61.9	61.9	61.9	61.9	58.6
57.5°	39.0	42.3	35.8	39.0	35.8	35.8	32.6	35.8	39.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	26.0	22.8	26.0	29.3	32.6	29.3	22.8	26.0	29.3
62.5°	13.0	13.0	13.0	19.5	29.3	22.8	19.5	16.2	16.2
65°	19.5	13.0	16.2	19.5	16.2	16.2	13.0	16.2	13.0
67.5°	9.8	16.2	9.8	6.5	9.8	13.0	9.8	6.5	6.5
70°	0.0	3.3	3.3	9.8	9.8	9.8	9.8	6.5	6.5
72.5°	3.3	3.3	3.3	6.5	3.3	6.5	3.3	3.3	6.5
75°	0.0	0.0	3.3	3.3	0.0	3.3	0.0	0.0	0.0
77.5°	3.3	0.0	3.3	3.3	0.0	0.0	0.0	3.3	0.0
80°	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	3.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)