

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: P247401

Luminaire Tested: **LSR8B120D010 EC8B120850 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247401
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 EC8B120850 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12983.0 lumens
Efficiency: N/A
Efficacy: 109.7 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

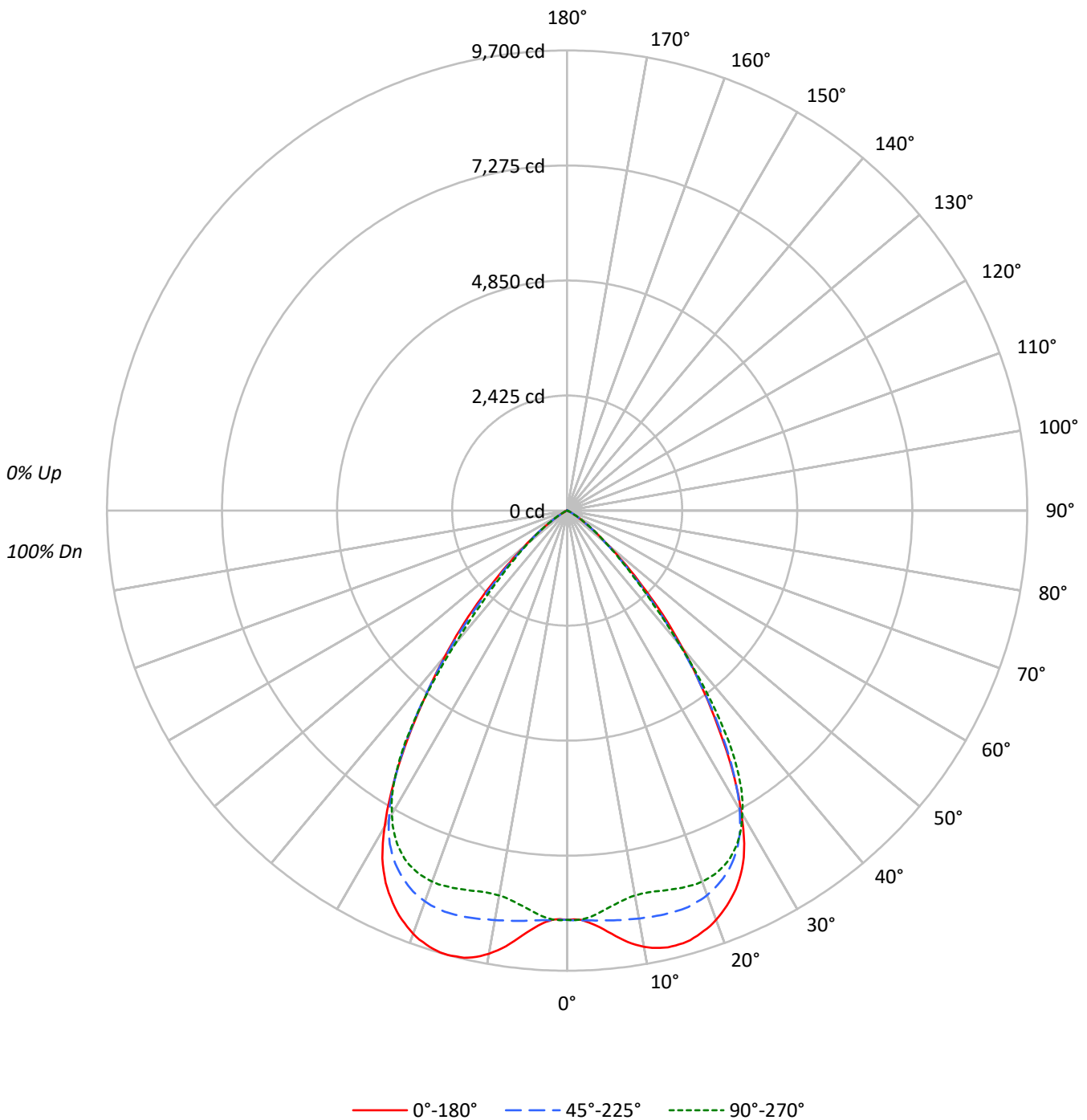
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	266111	266111	266111
5°	274278	262364	274733
10°	292373	257936	296963
15°	301367	264265	309673
20°	301356	273089	311581
25°	292128	275663	302607
30°	261464	263027	273994
35°	208248	223840	219842
40°	152148	148018	160851
45°	97200	86651	105678
50°	52583	51528	56454
55°	26999	27988	26999
60°	11755	11755	8591
65°	2408	3218	2678
70°	1650	2317	2642
75°	0	1311	0
80°	639	639	2593
85°	0	1274	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	831.8	6.4
10°-20°	2502.7	19.3
20°-30°	3809.2	29.3
30°-40°	3544.9	27.3
40°-50°	1725.3	13.3
50°-60°	491.6	3.8
60°-70°	64.3	0.5
70°-80°	10.2	0.1
80°-90°	3.1	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°	7143.7	55.0
0°-40°	10688.6	82.3
0°-60°	12905.5	99.4
0°-90°	12983.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12983.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8630	8630	8630	8630	8630	
5°	8861	8666	8476	8674	8876	863
15°	9440	8754	8278	8839	9700	2656
25°	8586	8212	8102	8392	8894	3897
35°	5532	5609	5946	5884	5840	3440
45°	2229	2064	1987	2225	2423	1762
55°	502	502	521	510	502	493
65°	33	40	44	40	37	63
75°	0	4	11	4	0	7
85°	0	4	4	7	0	1
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°	8629.8	8629.8	8629.8	8629.8	8629.8	8629.8	8629.8	8629.8	8629.8
1°	8618.8	8629.8	8637.2	8633.6	8637.2	8633.6	8626.2	8611.5	8611.5
2°	8633.6	8648.2	8644.4	8637.2	8626.2	8626.2	8648.2	8618.8	8626.2
3°	8692.1	8692.1	8648.2	8607.9	8593.1	8607.9	8644.4	8666.5	8684.9
4°	8765.5	8750.8	8662.8	8571.3	8541.8	8578.5	8659.2	8728.8	8765.5
5°	8860.8	8816.8	8666.5	8527.2	8475.9	8530.8	8673.9	8805.7	8875.5
6°	8970.8	8904.7	8688.5	8479.5	8413.6	8490.5	8695.9	8897.5	9003.7
7°	9080.8	8974.4	8699.5	8442.8	8358.5	8464.9	8714.2	9000.1	9139.4
8°	9183.4	9040.4	8710.5	8409.9	8307.2	8417.2	8728.8	9091.7	9275.0
9°	9267.8	9102.7	8717.8	8384.3	8263.3	8387.9	8747.2	9172.4	9388.7
10°	9337.4	9150.4	8732.6	8369.5	8237.6	8373.3	8765.5	9242.1	9484.0
11°	9392.4	9183.4	8736.2	8362.3	8226.6	8362.3	8780.1	9311.7	9564.8
12°	9425.3	9212.7	8747.2	8365.9	8230.2	8373.3	8802.1	9341.1	9630.7
13°	9447.4	9223.7	8754.4	8376.9	8237.6	8380.5	8816.8	9366.8	9674.6
14°	9447.4	9216.5	8754.4	8387.9	8259.7	8395.2	8827.8	9385.0	9685.6
15°	9440.1	9212.7	8754.4	8406.2	8277.9	8409.9	8838.8	9396.1	9700.3
16°	9418.1	9190.7	8750.8	8417.2	8296.2	8424.6	8842.4	9388.7	9689.4
17°	9374.0	9179.8	8736.2	8428.2	8314.6	8439.2	8842.4	9370.4	9663.6
18°	9315.3	9102.7	8699.5	8417.2	8318.2	8435.6	8820.5	9322.7	9616.1
19°	9264.0	9058.8	8673.9	8409.9	8332.8	8446.6	8805.7	9289.7	9564.8
20°	9183.4	8985.5	8629.8	8387.9	8322.0	8424.6	8769.2	9231.1	9495.0
21°	9084.5	8901.1	8567.5	8351.2	8303.6	8395.2	8717.8	9150.4	9399.7
22°	8985.5	8805.7	8501.5	8314.6	8274.3	8369.5	8662.8	9066.0	9300.7
23°	8868.1	8699.5	8417.2	8252.3	8230.2	8311.0	8585.9	8974.4	9183.4
24°	8736.2	8574.9	8325.6	8182.5	8175.3	8248.6	8497.9	8853.4	9044.2
25°	8585.9	8442.8	8212.0	8094.6	8102.0	8164.3	8391.5	8717.8	8893.9
26°	8406.2	8274.3	8079.9	7988.3	7999.4	8061.7	8270.5	8560.2	8728.8
27°	8204.6	8083.6	7926.0	7859.9	7889.3	7944.3	8124.0	8387.9	8523.6
28°	7951.7	7856.3	7742.7	7713.4	7750.1	7812.4	7962.7	8178.9	8299.9
29°	7658.3	7607.0	7519.0	7533.7	7585.0	7636.3	7760.9	7918.6	8014.0
30°	7343.1	7321.1	7269.8	7328.5	7387.0	7431.1	7515.4	7621.7	7695.0
31°	7020.5	6994.8	7002.1	7097.4	7185.4	7214.7	7262.4	7313.7	7368.8
32°	6657.6	6650.2	6679.5	6818.9	6932.5	6947.1	6950.8	6965.4	6994.8
33°	6287.3	6276.3	6335.0	6507.3	6635.5	6646.6	6617.1	6602.5	6624.5
34°	5902.3	5902.3	5979.3	6159.0	6309.3	6320.2	6261.6	6254.2	6232.2
35°	5532.0	5521.0	5609.0	5777.7	5946.2	5950.0	5883.9	5843.6	5840.0
37.5°	4615.5	4597.2	4626.5	4714.5	4839.1	4905.2	4897.8	4883.2	4872.2
40°	3779.7	3735.8	3677.1	3640.4	3677.1	3812.7	3930.0	3985.0	3995.9
42.5°	2991.5	2929.2	2804.6	2701.8	2716.6	2841.2	3020.8	3145.4	3207.8
45°	2228.9	2166.6	2064.0	1987.0	1987.0	2075.0	2225.3	2353.5	2423.3
47.5°	1591.1	1550.8	1492.1	1459.0	1481.1	1517.7	1602.1	1697.4	1726.7
50°	1096.1	1085.1	1052.2	1052.2	1074.1	1103.5	1118.1	1165.8	1176.8
52.5°	766.3	747.8	751.5	755.2	773.5	777.3	799.2	788.1	806.5
55°	502.2	502.2	502.2	513.2	520.6	520.6	509.6	502.2	502.2
57.5°	319.0	311.6	315.2	322.6	322.6	311.6	293.3	289.6	271.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	190.6	190.6	194.4	194.4	190.6	179.6	161.3	146.7	139.3
62.5°	99.0	102.6	102.6	121.0	102.6	91.6	84.4	65.9	62.3
65°	33.0	40.3	40.3	40.3	44.1	40.3	40.3	36.7	36.7
67.5°	22.0	25.7	25.7	29.3	29.3	29.3	29.3	36.7	25.7
70°	18.3	18.3	22.0	25.7	25.7	29.3	22.0	18.3	29.3
72.5°	11.0	14.6	11.0	18.3	14.6	14.6	14.6	14.6	14.6
75°	0.0	7.4	3.6	0.0	11.0	7.4	3.6	7.4	0.0
77.5°	3.6	3.6	3.6	3.6	7.4	7.4	7.4	7.4	3.6
80°	3.6	3.6	7.4	3.6	3.6	7.4	0.0	0.0	14.6
82.5°	3.6	3.6	3.6	3.6	3.6	3.6	0.0	3.6	3.6
85°	0.0	3.6	3.6	3.6	3.6	3.6	7.4	7.4	0.0
87.5°	0.0	3.6	0.0	3.6	0.0	0.0	0.0	7.4	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)