

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: P247717

Luminaire Tested: **LSR8B120D010 EC8B120930 8LBW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247717
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 EC8B120930 8LBW0MW
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10529.5 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.09 / 1.05
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

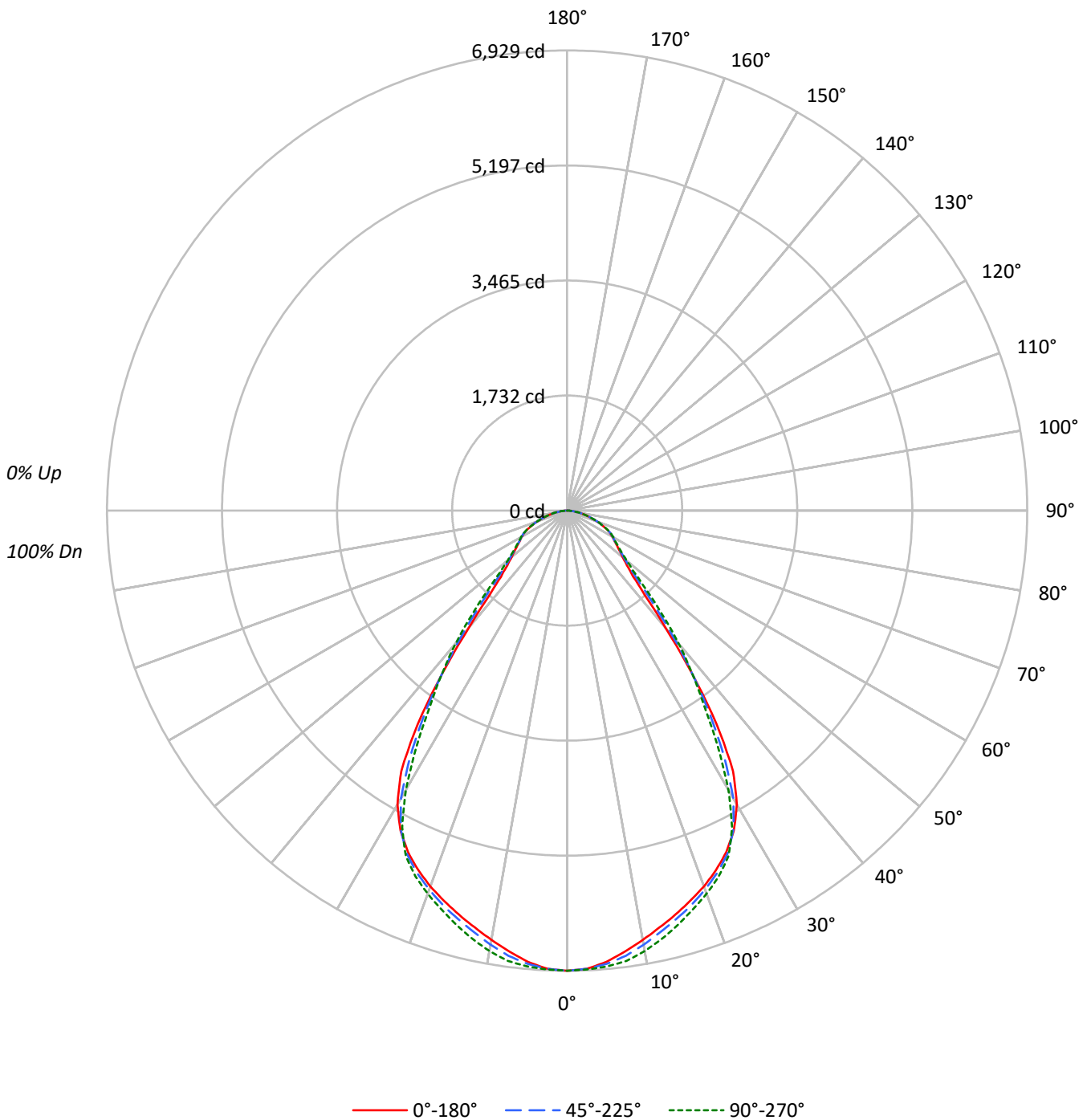
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P247717

CATALOG NUMBER: LSR8B120D010 EC8B120930 8LBW0MW

Luminous Intensity Polar Plot





TEST NUMBER: P247717

CATALOG NUMBER: LSR8B120D010 EC8B120930 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	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89						
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78						
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70						
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63						
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	57						
6	79	67	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51						
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47						
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43						
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40						
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37						

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



TEST NUMBER: P247717

CATALOG NUMBER: LSR8B120D010 EC8B120930 8LBW0MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	647.5	6.1
10°-20°	1796.4	17.1
20°-30°	2597.0	24.7
30°-40°	2324.2	22.1
40°-50°	1257.8	11.9
50°-60°	838.3	8.0
60°-70°	642.0	6.1
70°-80°	340.2	3.2
80°-90°	86.1	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°	5040.9	47.9
0°-40°	7365.1	69.9
0°-60°	9461.2	89.9
0°-90°	10529.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10529.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6929	6929	6929	6929	6929	
5°	6818	6822	6851	6878	6890	643
15°	6298	6310	6365	6427	6456	1777
25°	5671	5685	5707	5733	5744	2595
35°	3923	3883	3747	3638	3603	2375
45°	1411	1452	1544	1640	1675	1161
55°	912	916	924	934	938	825
65°	650	652	657	662	662	637
75°	315	315	319	320	320	338
85°	73	73	73	74	73	86
90°	0	0	0	0	0	



TEST NUMBER: P247717

CATALOG NUMBER: LSR8B120D010 EC8B120930 8LBW0MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6929.2	6929.2	6929.2	6929.2	6929.2
2.5°	6906.0	6903.7	6904.8	6912.2	6915.8
5°	6818.5	6822.2	6851.3	6878.1	6890.2
7.5°	6695.6	6711.4	6761.3	6813.7	6840.3
10°	6564.2	6580.0	6637.2	6711.4	6734.5
12.5°	6429.2	6448.7	6499.8	6575.2	6603.1
15°	6297.8	6310.0	6364.7	6426.8	6456.0
17.5°	6162.8	6174.9	6224.8	6273.5	6296.7
20°	6021.7	6035.0	6072.8	6114.2	6139.7
22.5°	5859.9	5873.3	5904.9	5941.4	5964.5
25°	5671.4	5684.7	5706.6	5733.4	5744.3
27.5°	5432.9	5441.4	5420.7	5398.8	5379.3
30°	5109.3	5082.5	4999.8	4893.9	4852.6
32.5°	4649.5	4563.1	4403.7	4274.8	4227.3
35°	3923.2	3883.0	3746.8	3638.5	3603.2
37.5°	3076.6	3103.3	3093.5	3086.2	3093.5
40°	2294.4	2356.3	2490.2	2581.4	2610.6
42.5°	1737.2	1796.7	1947.6	2074.2	2117.9
45°	1411.1	1452.5	1543.7	1639.8	1675.1
47.5°	1217.7	1240.8	1287.0	1338.1	1355.2
50°	1093.6	1103.4	1126.5	1155.6	1165.4
52.5°	995.1	999.9	1013.4	1029.2	1031.5
55°	912.4	916.0	924.5	934.2	937.9
57.5°	843.0	846.7	849.2	855.2	857.7
60°	788.3	788.3	793.1	798.0	800.5
62.5°	728.6	728.6	733.6	738.4	738.4
65°	649.6	652.1	656.9	661.7	661.7
67.5°	563.2	564.4	568.1	572.9	571.7
70°	476.9	476.9	480.6	482.9	484.2
72.5°	394.1	392.9	399.0	400.2	396.6
75°	315.1	315.1	318.7	319.9	319.9
77.5°	245.7	244.5	244.5	245.7	247.0
80°	180.0	181.3	180.0	182.5	184.9
82.5°	125.3	124.1	124.1	124.1	122.9
85°	73.0	73.0	73.0	74.2	73.0
87.5°	29.1	29.1	28.0	28.0	26.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)