

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: P247573

Luminaire Tested: **LSR8B120D010 EC8B1209730 8LBS0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247573
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-86)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B1209730 8LBS0GPH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9070.0 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.19 / 1.23
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

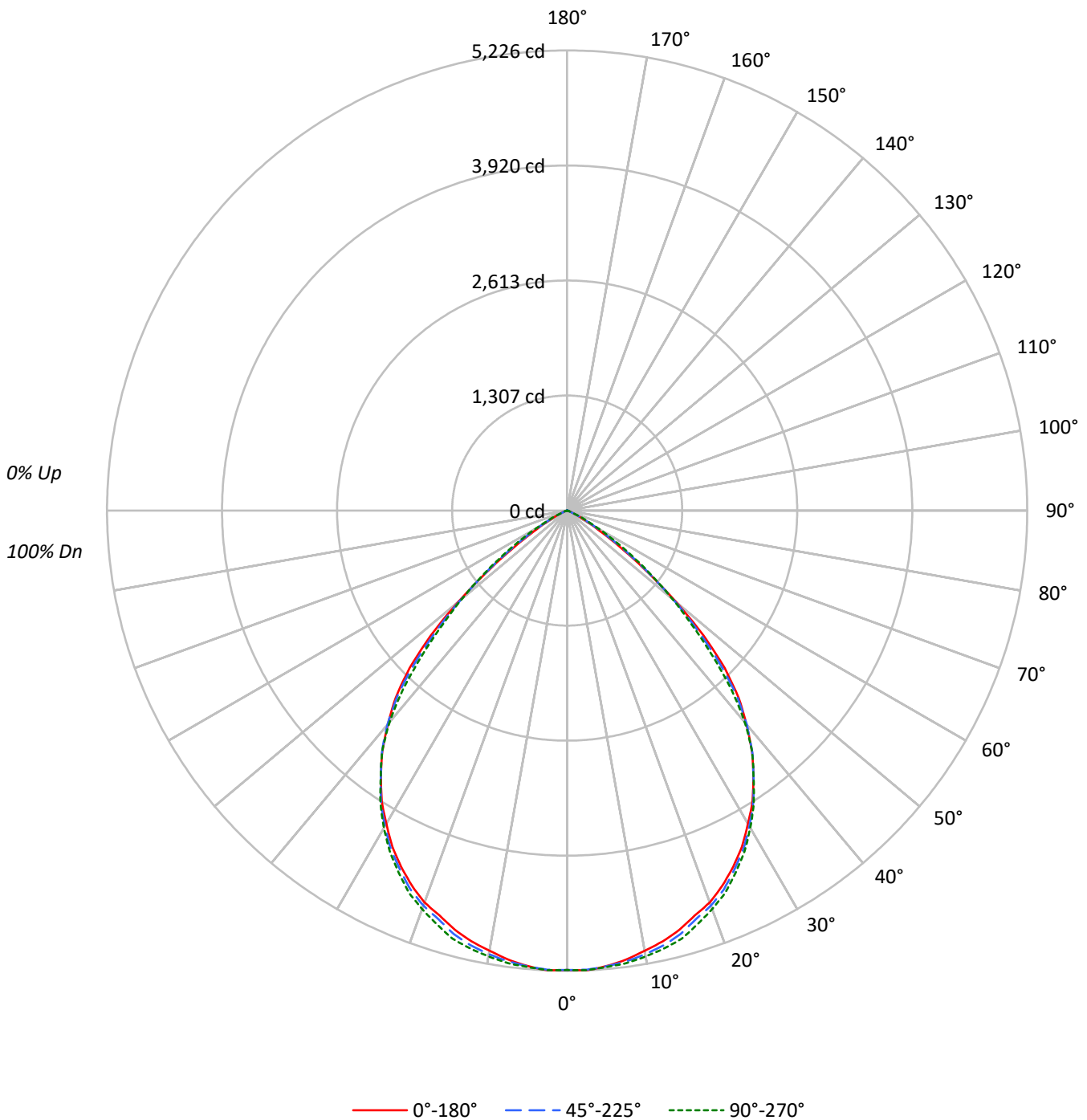
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P247573

CATALOG NUMBER: LSR8B120D010 EC8B1209730 8LBS0GPH

Luminous Intensity Polar Plot





TEST NUMBER: P247573

CATALOG NUMBER: LSR8B120D010 EC8B1209730 8LBS0GPH

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	100	100	100	100		
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91	91	91	91	91		
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81	81	81	81	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73	73	73	73	73		
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65	65	65	65	65		
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58	58	58	58		
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53	53	53	53	53		
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48	48	48	48	48		
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43	43	43	43	43		
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39	39	39	39	39		
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36	36	36	36	36		

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: P247573

CATALOG NUMBER: LSR8B120D010 EC8B1209730 8LBS0GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.6	5.4
10°-20°	1401.7	15.5
20°-30°	2067.1	22.8
30°-40°	2300.8	25.4
40°-50°	1851.7	20.4
50°-60°	787.4	8.7
60°-70°	147.6	1.6
70°-80°	17.9	0.2
80°-90°	2.2	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°	3962.4	43.7
0°-40°	6263.2	69.1
0°-60°	8902.3	98.2
0°-90°	9070.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9070.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5218	5218	5218	5218	5218	
5°	5192	5193	5194	5203	5202	492
15°	4928	4955	4979	5017	5033	1389
25°	4462	4479	4495	4521	4532	2051
35°	3686	3688	3690	3691	3691	2296
45°	2530	2509	2441	2367	2332	1902
55°	781	799	846	880	902	744
65°	98	108	123	131	146	127
75°	10	12	18	17	16	16
85°	0	0	0	0	0	2
90°	0	0	0	0	0	



TEST NUMBER: P247573

CATALOG NUMBER: LSR8B120D010 EC8B1209730 8LBS0GPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5217.8	5217.8	5217.8	5217.8	5217.8
2.5°	5226.5	5229.7	5218.9	5221.0	5224.3
5°	5191.7	5192.8	5193.9	5202.6	5201.5
7.5°	5142.9	5150.5	5163.5	5179.8	5184.1
10°	5076.7	5096.2	5115.8	5135.3	5141.8
12.5°	5011.6	5023.5	5058.2	5077.8	5094.1
15°	4928.0	4955.2	4979.0	5017.0	5033.3
17.5°	4821.7	4841.2	4864.0	4902.0	4924.8
20°	4735.9	4741.4	4773.9	4807.6	4815.2
22.5°	4609.0	4620.9	4654.5	4677.3	4696.9
25°	4462.5	4478.7	4495.0	4521.1	4531.9
27.5°	4301.8	4311.6	4334.4	4352.9	4362.6
30°	4107.6	4129.3	4139.1	4147.7	4160.8
32.5°	3918.8	3925.3	3934.0	3939.4	3945.9
35°	3686.5	3687.6	3689.8	3690.9	3690.9
37.5°	3448.9	3456.5	3454.3	3447.8	3451.0
40°	3167.8	3180.8	3173.2	3153.7	3140.7
42.5°	2884.5	2878.0	2852.0	2793.4	2766.2
45°	2529.7	2509.0	2440.7	2366.9	2332.2
47.5°	2104.3	2058.7	2001.2	1943.6	1920.9
50°	1612.6	1606.1	1580.1	1557.3	1559.5
52.5°	1155.8	1172.0	1177.5	1199.2	1210.0
55°	781.4	798.7	846.5	880.1	901.8
57.5°	475.3	509.0	560.0	615.3	643.5
60°	300.6	320.1	366.8	402.6	415.6
62.5°	187.7	188.8	211.6	239.8	251.8
65°	97.7	108.5	122.6	131.3	146.5
67.5°	60.8	60.8	59.7	72.7	81.4
70°	40.2	34.7	35.8	43.4	46.7
72.5°	14.1	23.9	21.7	21.7	15.2
75°	9.8	11.9	18.4	17.4	16.3
77.5°	13.0	11.9	8.7	7.6	15.2
80°	5.4	4.3	1.1	6.5	6.5
82.5°	5.4	2.2	6.5	8.7	5.4
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	1.1	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)