

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: P247249

Luminaire Tested: **LSR8B120D010 EC8B120835 8LBW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247249
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-59)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120835 8LBW0WMH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12153.0 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.14 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

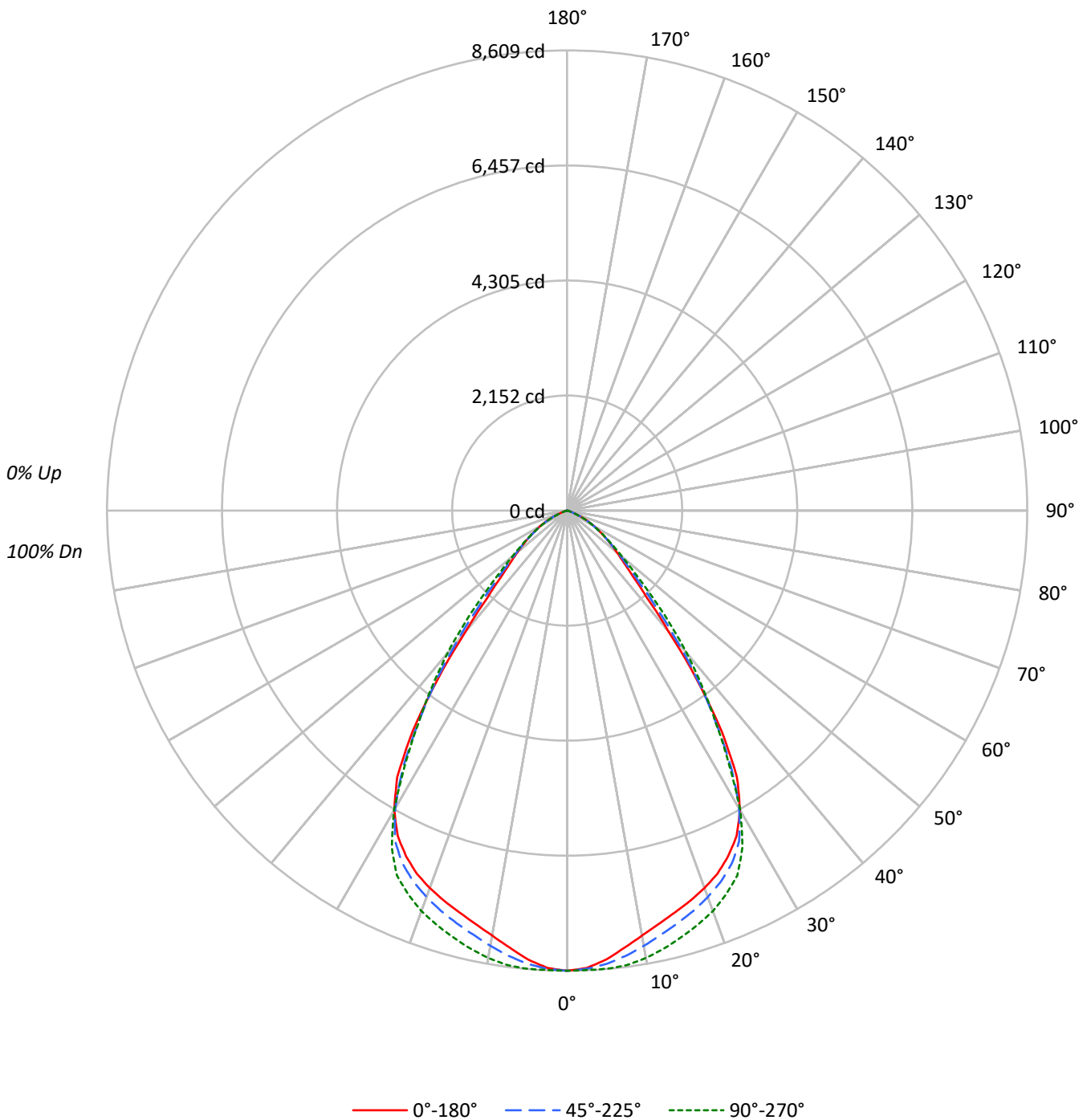
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83					83			
3	99	91	85	81	97	90	84	80	87	83	79	85	81	78	82	79	76	75					75			
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	68					68			
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61					61			
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56					56			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51					51			
8	72	61	54	50	71	61	54	49	59	54	49	58	53	49	57	52	49	47					47			
9	68	57	50	46	67	57	50	46	56	50	45	55	49	45	54	49	45	44					44			
10	65	53	47	42	63	53	47	42	52	46	42	51	46	42	50	45	42	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	265467	265467	265467
5°	260918	263426	266345
10°	252772	258907	266102
15°	248497	255080	263779
20°	246538	252484	261620
25°	242640	248002	256321
30°	230215	229272	230742
35°	189764	183056	182612
40°	118894	129509	140241
45°	75357	83773	94305
50°	58018	60283	64523
55°	45934	45778	47439
60°	35795	35067	34888
65°	24078	23108	22466
70°	11026	10098	9566
75°	5266	4742	4384
80°	2610	2362	2362
85°	1557	1557	1026



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	805.1	6.6
10°-20°	2260.7	18.6
20°-30°	3329.5	27.4
30°-40°	3028.3	24.9
40°-50°	1567.7	12.9
50°-60°	785.4	6.5
60°-70°	319.9	2.6
70°-80°	51.0	0.4
80°-90°	5.5	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°	6395.3	52.6
0°-40°	9423.6	77.5
0°-60°	11776.7	96.9
0°-90°	12153.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12153.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8609	8609	8609	8609	8609	
5°	8429	8451	8510	8575	8604	793
15°	7784	7837	7990	8174	8263	2200
25°	7131	7180	7289	7456	7534	3265
35°	5041	5009	4863	4822	4851	3040
45°	1728	1788	1921	2070	2162	1423
55°	854	852	852	868	882	776
65°	330	328	317	312	308	333
75°	44	43	40	37	37	56
85°	4	4	4	3	3	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8608.9	8608.9	8608.9	8608.9	8608.9
2.5°	8563.3	8567.7	8579.5	8592.7	8603.0
5°	8429.2	8451.3	8510.2	8575.0	8604.5
7.5°	8246.5	8295.2	8402.7	8523.5	8576.5
10°	8072.7	8128.7	8268.6	8430.7	8498.4
12.5°	7919.5	7974.0	8125.7	8306.9	8390.9
15°	7784.0	7837.0	7990.2	8174.4	8262.7
17.5°	7655.8	7704.4	7850.3	8034.4	8124.3
20°	7512.9	7555.6	7694.1	7872.4	7972.5
22.5°	7350.9	7383.3	7512.9	7682.3	7770.7
25°	7131.4	7180.0	7289.0	7455.5	7533.5
27.5°	6863.3	6894.2	6969.3	7071.0	7103.4
30°	6465.5	6464.1	6439.0	6439.0	6480.3
32.5°	5913.1	5842.4	5723.1	5650.9	5645.0
35°	5041.0	5008.6	4862.8	4821.5	4851.0
37.5°	3977.4	3999.5	4036.4	4095.3	4148.3
40°	2953.6	3009.6	3217.3	3402.9	3483.9
42.5°	2203.8	2276.0	2488.1	2691.4	2790.1
45°	1728.0	1788.4	1921.0	2069.7	2162.5
47.5°	1428.9	1459.9	1530.6	1630.7	1677.9
50°	1209.4	1224.2	1256.6	1308.1	1345.0
52.5°	1026.8	1020.9	1038.6	1072.4	1085.7
55°	854.4	851.5	851.5	867.7	882.4
57.5°	708.6	704.2	695.3	702.7	707.1
60°	580.4	576.0	568.6	567.2	565.7
62.5°	467.0	459.6	444.9	441.9	441.9
65°	330.0	328.5	316.7	312.3	307.9
67.5°	204.8	198.9	188.6	179.7	178.2
70°	122.3	120.8	112.0	106.1	106.1
72.5°	73.7	70.7	66.3	63.3	61.9
75°	44.2	42.7	39.8	36.8	36.8
77.5°	26.5	25.0	23.6	22.1	22.1
80°	14.7	14.7	13.3	13.3	13.3
82.5°	8.8	8.8	7.4	7.4	7.4
85°	4.4	4.4	4.4	2.9	2.9
87.5°	1.5	1.5	1.5	1.5	1.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)