

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: P247633

Luminaire Tested: **LSR8B120D010 EC8B120835 8LBS0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247633  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-87)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B120D010 EC8B120835 8LBS0B  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11455.0 lumens  
Efficiency: N/A  
Efficacy: 96.8 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

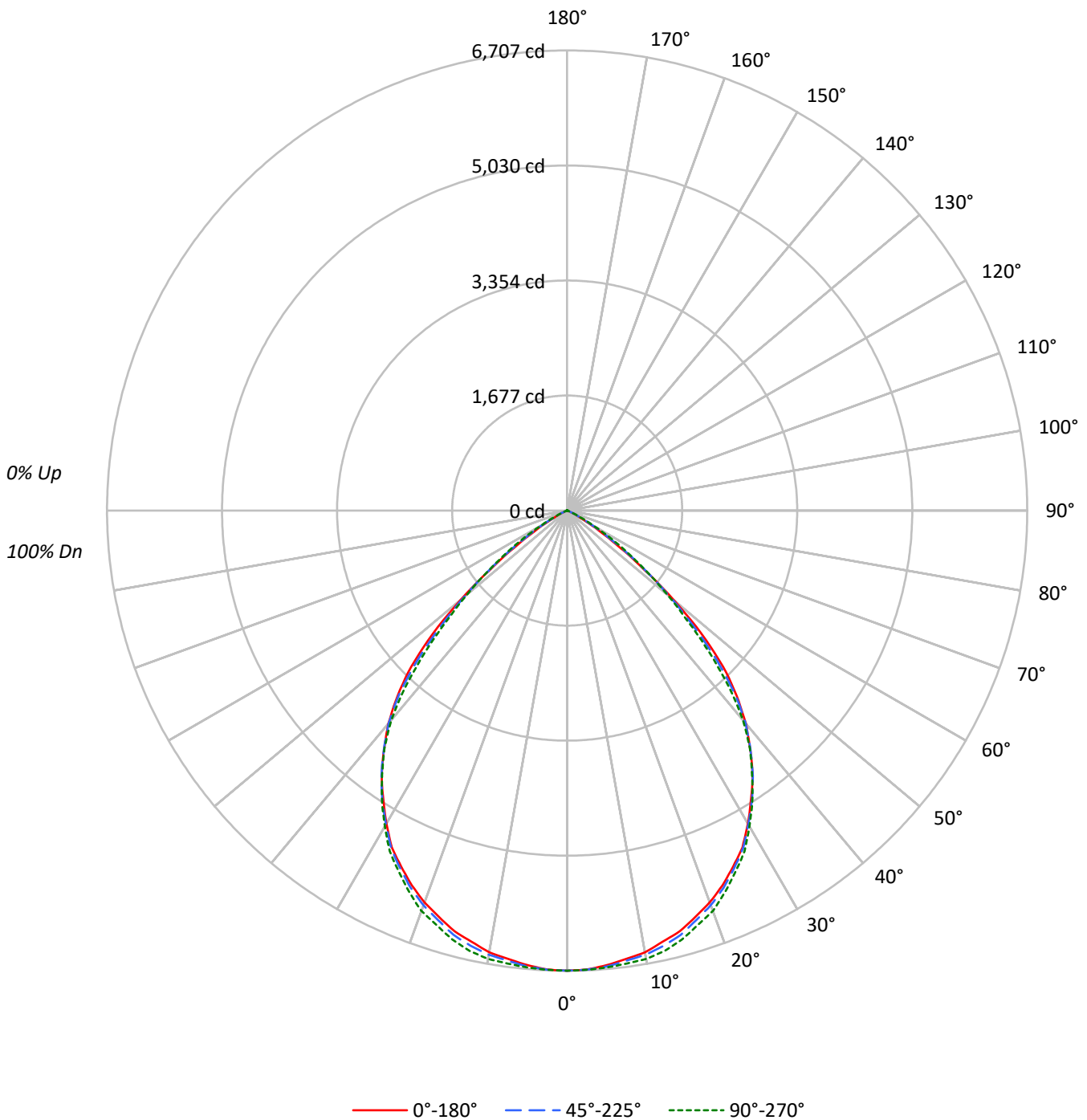
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91				91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82				82
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73				73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65				65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59				59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53				53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48				48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44				44
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40				40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37				37

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	206822	206822	206822
5°	205879	206427	206928
10°	204709	205817	207752
15°	202645	204384	206594
20°	199406	200856	203806
25°	194771	195826	197578
30°	187573	188043	189250
35°	177398	177677	176954
40°	163012	162835	160581
45°	140173	134456	128289
50°	97452	93988	91374
55°	50842	55278	58525
60°	20623	24348	28252
65°	6560	8063	8595
70°	929	532	261
75°	0	0	0
80°	2362	515	781
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	633.4	5.5
10°-20°	1802.5	15.7
20°-30°	2648.0	23.1
30°-40°	2931.6	25.6
40°-50°	2336.3	20.4
50°-60°	957.3	8.4
60°-70°	141.0	1.2
70°-80°	2.0	0.0
80°-90°	2.9	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°	5083.9	44.4
0°-40°	8015.5	70.0
0°-60°	11309.1	98.7
0°-90°	11455.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11455.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6707	6707	6707	6707	6707	
5°	6651	6663	6669	6679	6685	631
15°	6348	6352	6402	6463	6471	1786
25°	5724	5719	5756	5789	5807	2633
35°	4712	4707	4720	4714	4701	2929
45°	3214	3185	3083	2968	2942	2412
55°	946	978	1028	1087	1089	910
65°	90	94	110	121	118	119
75°	0	0	0	0	0	4
85°	0	0	0	6	0	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6707.1	6707.1	6707.1	6707.1	6707.1
2.5°	6695.3	6696.8	6696.8	6689.4	6698.3
5°	6651.1	6662.9	6668.8	6679.1	6685.0
7.5°	6589.3	6586.3	6617.2	6654.1	6658.5
10°	6537.7	6531.8	6573.1	6621.7	6634.9
12.5°	6436.1	6443.4	6496.5	6546.5	6573.1
15°	6347.7	6352.1	6402.2	6462.6	6471.4
17.5°	6210.7	6223.9	6257.8	6321.2	6332.9
20°	6076.6	6082.5	6120.8	6172.4	6210.7
22.5°	5913.1	5923.4	5952.9	5998.5	6017.7
25°	5724.5	5718.6	5755.5	5789.4	5807.0
27.5°	5533.0	5522.7	5550.7	5583.1	5599.3
30°	5267.9	5264.9	5281.1	5301.8	5315.0
32.5°	4989.5	4996.8	5013.0	5018.9	5023.3
35°	4712.5	4706.6	4719.9	4714.0	4700.7
37.5°	4384.0	4388.4	4388.4	4382.5	4376.6
40°	4049.6	4054.0	4045.2	4012.8	3989.2
42.5°	3657.8	3660.7	3615.0	3542.9	3494.2
45°	3214.3	3184.9	3083.2	2968.3	2941.8
47.5°	2656.0	2605.9	2499.9	2413.0	2382.0
50°	2031.4	1994.6	1959.2	1913.6	1904.7
52.5°	1424.5	1443.7	1456.9	1471.6	1467.2
55°	945.7	978.2	1028.2	1087.2	1088.6
57.5°	568.6	605.5	668.8	733.6	764.5
60°	334.4	349.1	394.8	443.4	458.1
62.5°	181.2	185.6	206.2	254.8	247.5
65°	89.9	94.3	110.5	120.8	117.8
67.5°	44.2	48.6	51.6	66.3	54.5
70°	10.3	2.9	5.9	7.4	2.9
72.5°	0.0	0.0	2.9	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	2.9	0.0	0.0	0.0	5.9
80°	13.3	8.8	2.9	2.9	4.4
82.5°	4.4	1.5	4.4	1.5	0.0
85°	0.0	0.0	0.0	5.9	0.0
87.5°	7.4	1.5	1.5	4.4	7.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)