

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: P247185

Luminaire Tested: **LSR8B120D010 EC8B120927 8LBW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247185  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-58)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B120D010 EC8B120927 8LBW0H  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9732.4 lumens  
Efficiency: N/A  
Efficacy: 82.3 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.06  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

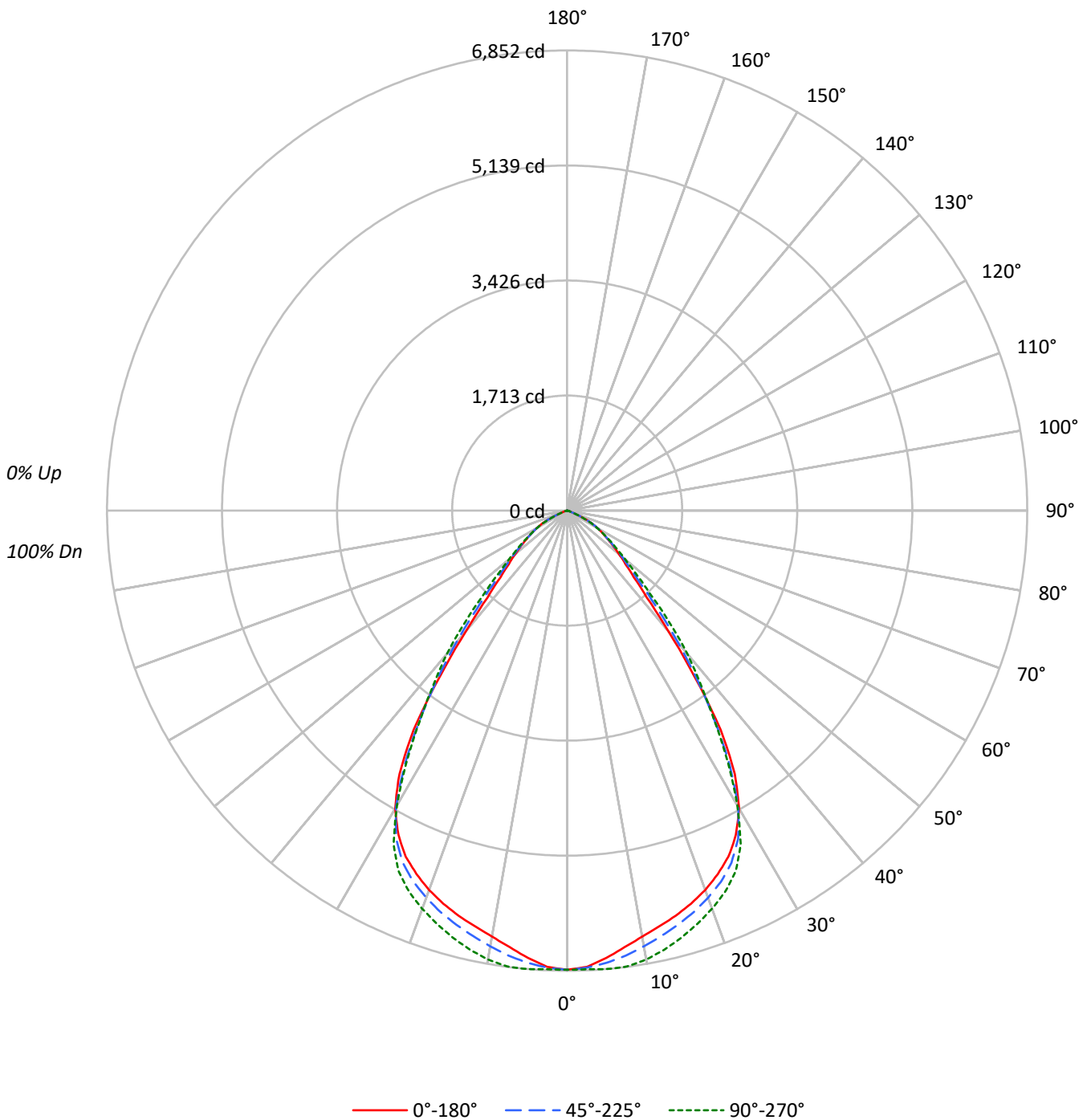
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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							
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10				
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	111	106	106	106	106	102	102	102	102	100	100	100	100
1	112	109	106	104	110	107	104	102	103	101	99	99	99	97	96	96	96	94	93	93	91	91	91	91
2	106	100	95	91	103	98	94	90	95	91	88	88	92	89	86	86	89	86	84	84	82	82	82	82
3	99	91	85	81	97	90	84	80	87	82	79	79	85	81	77	77	82	79	76	76	74	74	74	74
4	93	84	77	72	91	82	76	72	80	75	71	71	78	74	70	70	76	72	69	69	67	67	67	67
5	87	77	70	65	85	76	69	65	74	68	64	64	72	67	63	63	71	66	63	63	61	61	61	61
6	81	71	64	59	80	70	64	59	69	63	58	58	67	62	58	58	66	61	57	57	56	56	56	56
7	77	66	59	54	75	65	58	54	64	58	53	53	62	57	53	53	61	56	53	53	51	51	51	51
8	72	61	54	49	71	60	54	49	59	53	49	49	58	53	49	49	57	52	49	49	47	47	47	47
9	68	57	50	45	67	56	50	45	55	49	45	45	54	49	45	45	53	48	45	45	43	43	43	43
10	64	53	47	42	63	53	46	42	52	46	42	42	51	46	42	42	50	45	42	42	40	40	40	40

**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°			



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	640.5	6.6
10°-20°	1804.6	18.5
20°-30°	2639.2	27.1
30°-40°	2391.5	24.6
40°-50°	1271.6	13.1
50°-60°	678.7	7.0
60°-70°	276.8	2.8
70°-80°	27.9	0.3
80°-90°	1.6	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°	5084.3	52.2
0°-40°	7475.8	76.8
0°-60°	9426.0	96.9
0°-90°	9732.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9732.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6837	6837	6837	6837	6837	
5°	6686	6704	6759	6820	6852	630
15°	6245	6281	6383	6514	6581	1762
25°	5685	5709	5787	5887	5933	2598
35°	3985	3929	3847	3819	3825	2395
45°	1406	1447	1567	1692	1737	1150
55°	733	732	746	756	769	664
65°	286	285	278	262	263	285
75°	21	21	20	18	18	30
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6837.4	6837.4	6837.4	6837.4	6837.4
2.5°	6800.5	6799.4	6812.1	6827.1	6835.2
5°	6686.2	6703.5	6759.0	6820.1	6852.5
7.5°	6557.1	6589.4	6685.1	6790.2	6846.6
10°	6440.5	6482.0	6587.0	6724.4	6786.7
12.5°	6340.0	6380.4	6486.6	6627.4	6695.6
15°	6245.4	6281.2	6382.8	6514.3	6581.2
17.5°	6135.8	6170.4	6268.5	6393.2	6450.9
20°	6012.3	6041.1	6133.5	6250.0	6308.9
22.5°	5858.9	5890.0	5983.4	6090.8	6146.2
25°	5684.6	5708.8	5787.3	5886.6	5932.7
27.5°	5442.3	5464.1	5510.4	5563.5	5598.0
30°	5121.4	5115.7	5098.4	5082.2	5067.2
32.5°	4648.3	4592.9	4508.7	4455.6	4457.9
35°	3984.8	3929.4	3847.4	3818.6	3825.4
37.5°	3113.4	3155.1	3188.5	3243.9	3270.4
40°	2333.4	2404.9	2574.6	2722.3	2783.5
42.5°	1754.1	1824.5	2002.2	2158.0	2242.2
45°	1405.6	1447.1	1567.1	1691.8	1736.8
47.5°	1177.1	1195.5	1264.8	1344.4	1383.6
50°	1007.4	1019.0	1055.9	1099.8	1125.1
52.5°	863.2	867.8	886.3	911.7	927.8
55°	732.8	731.6	745.5	755.9	768.6
57.5°	619.6	618.5	618.5	622.0	630.1
60°	522.8	519.3	519.3	514.7	516.9
62.5°	425.8	422.3	414.3	408.5	406.2
65°	286.2	285.1	278.1	262.0	263.1
67.5°	148.8	147.7	140.7	136.1	133.9
70°	79.6	77.3	73.8	70.4	68.1
72.5°	40.4	39.3	38.1	35.8	35.8
75°	20.8	20.8	19.6	18.4	18.4
77.5°	10.4	10.4	9.2	9.2	9.2
80°	5.7	5.7	4.6	4.6	4.6
82.5°	2.4	2.4	2.4	2.4	2.4
85°	1.1	1.1	1.1	1.1	1.1
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)