

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: P247253

Luminaire Tested: **LSR8B120D010 EC8B120840 8LBW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247253  
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 EC8B120840 8LBW0WMH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 4000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12074.0 lumens  
Efficiency: N/A  
Efficacy: 102.1 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

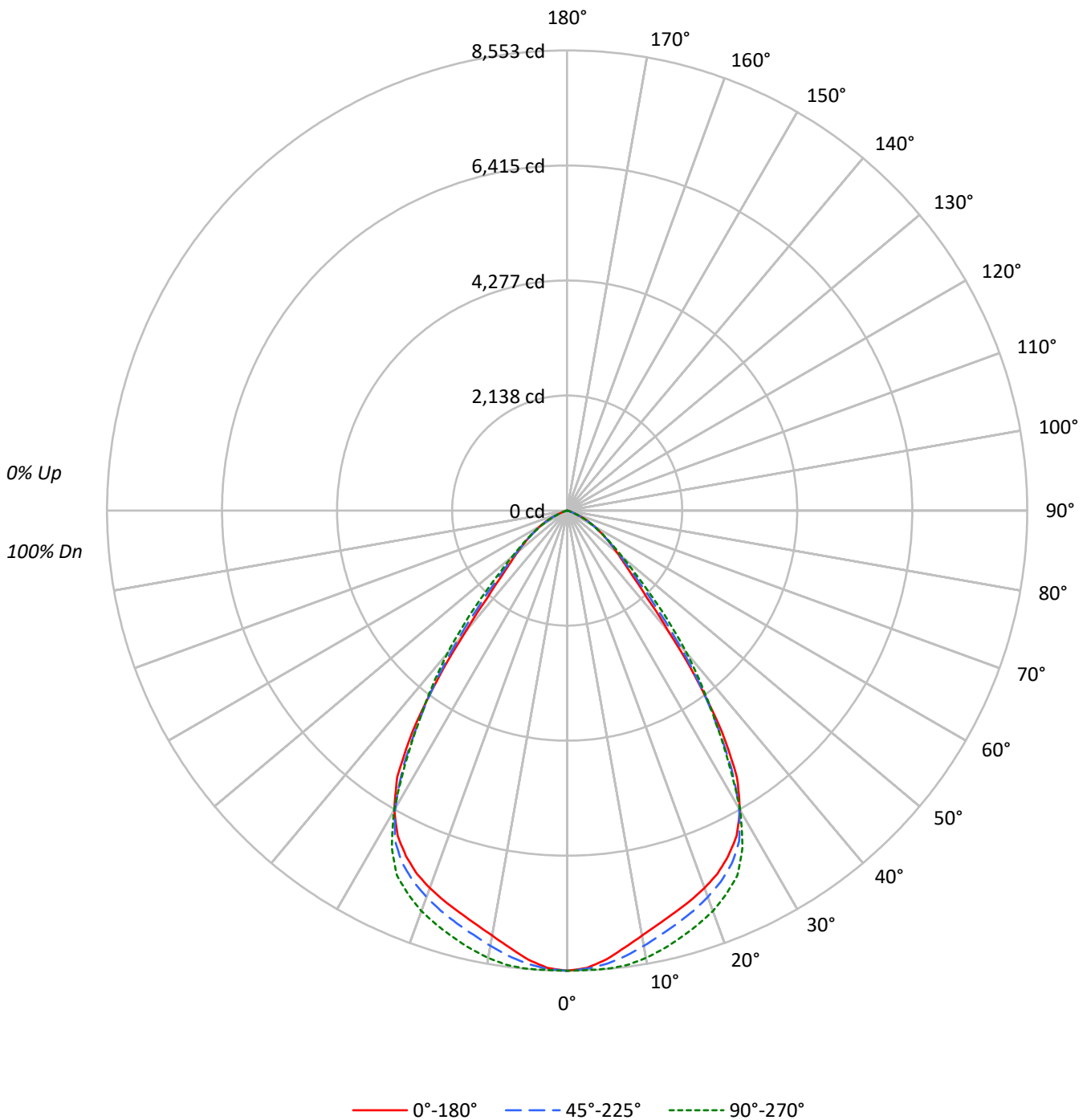
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	263743	263743	263743
5°	259222	261714	264614
10°	251129	257225	264374
15°	246882	253423	262065
20°	244937	250844	259920
25°	241061	246389	254657
30°	228720	227783	229240
35°	188533	181867	181426
40°	118121	128668	139331
45°	74864	83228	93694
50°	57644	59889	64101
55°	45638	45477	47133
60°	35560	34839	34660
65°	23918	22962	22320
70°	10954	10026	9503
75°	5230	4706	4361
80°	2593	2344	2344
85°	1557	1557	1026



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	799.8	6.6
10°-20°	2246.0	18.6
20°-30°	3307.9	27.4
30°-40°	3008.6	24.9
40°-50°	1557.5	12.9
50°-60°	780.3	6.5
60°-70°	317.8	2.6
70°-80°	50.7	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°	6353.7	52.6
0°-40°	9362.4	77.5
0°-60°	11700.1	96.9
0°-90°	12074.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12074.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8553	8553	8553	8553	8553	
5°	8374	8396	8455	8519	8549	788
15°	7733	7786	7938	8121	8209	2185
25°	7085	7133	7242	7407	7485	3244
35°	5008	4976	4831	4790	4820	3020
45°	1717	1777	1908	2056	2148	1414
55°	849	846	846	862	877	771
65°	328	326	315	310	306	331
75°	44	42	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°	8553.0	8553.0	8553.0	8553.0	8553.0
2.5°	8507.6	8512.0	8523.7	8536.9	8547.1
5°	8374.4	8396.4	8454.9	8519.3	8548.6
7.5°	8192.9	8241.2	8348.1	8468.1	8520.8
10°	8020.2	8075.8	8214.9	8375.9	8443.2
12.5°	7868.0	7922.2	8072.9	8252.9	8336.4
15°	7733.4	7786.1	7938.3	8121.2	8209.0
17.5°	7606.1	7654.3	7799.2	7982.2	8071.5
20°	7464.1	7506.5	7644.1	7821.2	7920.7
22.5°	7303.1	7335.3	7464.1	7632.4	7720.2
25°	7085.0	7133.3	7241.6	7407.0	7484.6
27.5°	6818.7	6849.4	6924.0	7025.0	7057.2
30°	6423.5	6422.0	6397.2	6397.2	6438.1
32.5°	5874.7	5804.4	5685.9	5614.2	5608.3
35°	5008.3	4976.1	4831.2	4790.2	4819.5
37.5°	3951.6	3973.5	4010.1	4068.7	4121.3
40°	2934.4	2990.0	3196.4	3380.8	3461.3
42.5°	2189.5	2261.2	2471.9	2673.9	2772.0
45°	1716.7	1776.7	1908.5	2056.3	2148.5
47.5°	1419.6	1450.4	1520.6	1620.1	1667.0
50°	1201.6	1216.2	1248.4	1299.6	1336.2
52.5°	1020.1	1014.2	1031.8	1065.5	1078.6
55°	848.9	845.9	845.9	862.0	876.7
57.5°	704.0	699.6	690.8	698.1	702.5
60°	576.6	572.2	564.9	563.5	562.0
62.5°	463.9	456.6	442.0	439.1	439.1
65°	327.8	326.4	314.7	310.3	305.9
67.5°	203.4	197.6	187.3	178.6	177.1
70°	121.5	120.0	111.2	105.4	105.4
72.5°	73.2	70.3	65.9	62.9	61.5
75°	43.9	42.4	39.5	36.6	36.6
77.5°	26.3	24.9	23.4	22.0	22.0
80°	14.6	14.6	13.2	13.2	13.2
82.5°	8.8	8.8	7.3	7.3	7.3
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)