

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: P247341

Luminaire Tested: **LSR8B120D010 EC8B120830 8LBS0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247341  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-84)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B120D010 EC8B120830 8LBS0WMH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12701.0 lumens  
Efficiency: N/A  
Efficacy: 107.4 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.2 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

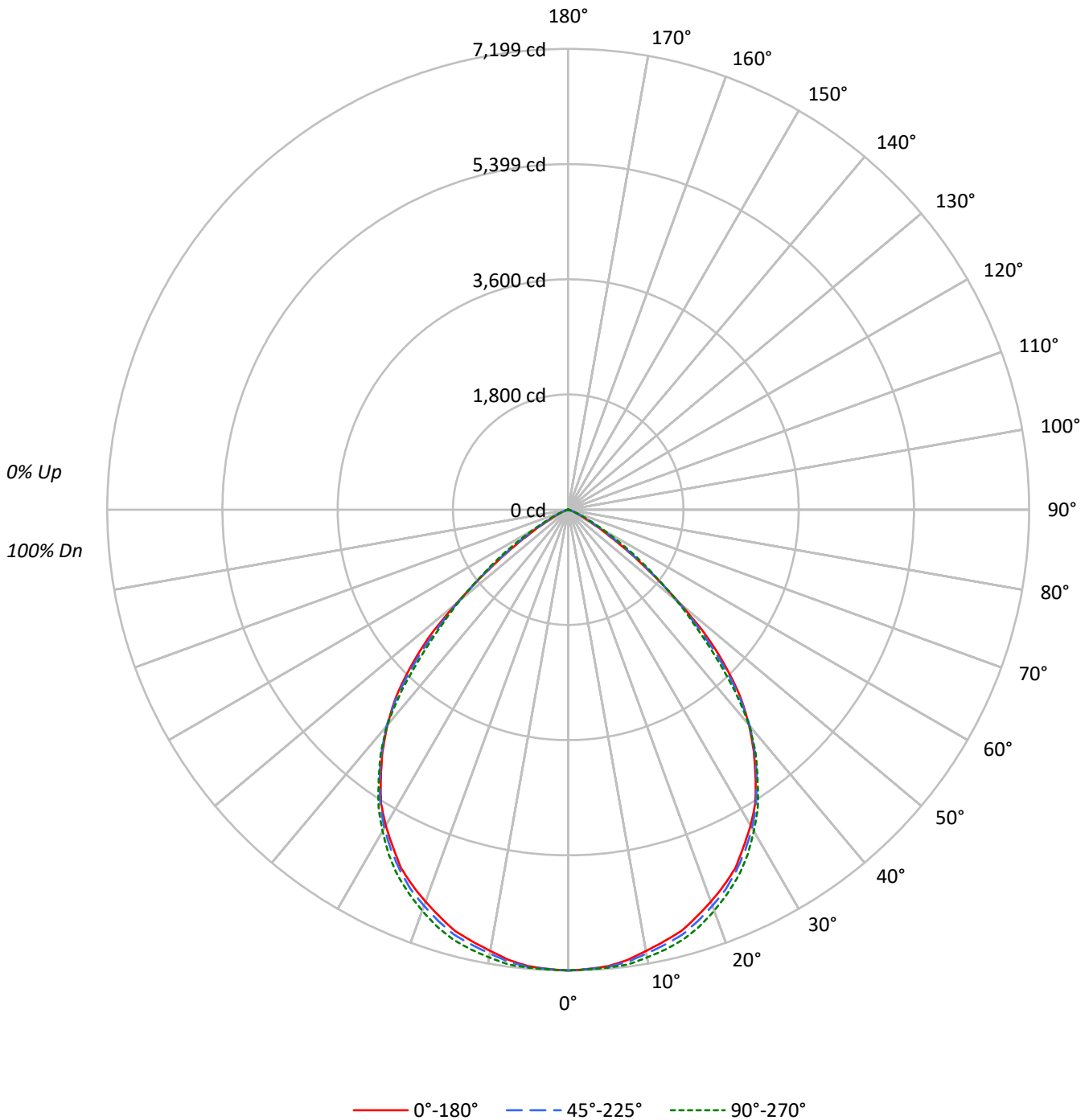
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	110	107	104	101	102	100	98	99	97	95	95	94	92	91					91			
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	81	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64					64			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58					58			
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52					52			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47					47			
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	44	43					43			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39					39			
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36					36			

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

	0°	45°	90°
0°	221994	221994	221994
5°	221526	221879	222272
10°	219165	220452	222403
15°	217614	219513	221866
20°	213834	216066	218717
25°	210143	211494	214434
30°	202869	204486	206401
35°	191974	193149	194161
40°	176771	177629	177174
45°	152401	148389	142458
50°	108802	107171	105876
55°	62449	66180	71664
60°	29615	34685	40100
65°	13951	16848	19328
70°	6510	7276	8304
75°	3038	4384	5064
80°	2522	2255	3516
85°	991	2512	1486



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	680.2	5.4
10°-20°	1935.6	15.2
20°-30°	2859.6	22.5
30°-40°	3195.4	25.2
40°-50°	2579.7	20.3
50°-60°	1147.4	9.0
60°-70°	258.5	2.0
70°-80°	39.9	0.3
80°-90°	4.7	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°	5475.4	43.1
0°-40°	8670.7	68.3
0°-60°	12397.9	97.6
0°-90°	12701.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12701.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7199	7199	7199	7199	7199	
5°	7157	7155	7168	7169	7181	678
15°	6817	6821	6876	6927	6950	1917
25°	6176	6176	6216	6267	6302	2832
35°	5100	5097	5131	5137	5158	3179
45°	3495	3468	3403	3282	3267	2642
55°	1162	1179	1231	1295	1333	1093
65°	191	215	231	251	265	222
75°	26	35	37	35	42	33
85°	3	4	7	16	4	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7199.1	7199.1	7199.1	7199.1	7199.1
2.5°	7180.7	7176.5	7183.5	7179.3	7186.4
5°	7156.6	7155.2	7168.0	7169.4	7180.7
7.5°	7094.3	7095.7	7122.6	7142.5	7165.1
10°	6999.4	7005.0	7040.5	7084.4	7102.8
12.5°	6908.7	6915.8	6961.1	7022.0	7036.2
15°	6816.6	6820.9	6876.1	6927.1	6949.8
17.5°	6666.5	6694.8	6737.3	6795.4	6825.1
20°	6516.3	6536.2	6584.3	6648.1	6665.1
22.5°	6352.0	6373.2	6421.4	6473.8	6492.2
25°	6176.3	6176.3	6216.0	6267.0	6302.4
27.5°	5931.3	5961.0	5989.3	6034.7	6070.1
30°	5697.5	5708.9	5742.9	5779.7	5796.7
32.5°	5438.3	5439.7	5455.3	5496.4	5512.0
35°	5099.7	5096.9	5130.9	5136.6	5157.8
37.5°	4761.2	4775.3	4788.1	4807.9	4809.3
40°	4391.4	4398.5	4412.7	4391.4	4401.4
42.5°	3989.1	3979.2	3952.3	3888.5	3861.6
45°	3494.7	3467.8	3402.7	3282.2	3266.7
47.5°	2949.3	2882.8	2803.4	2714.2	2697.2
50°	2268.0	2273.6	2234.0	2204.2	2207.0
52.5°	1653.2	1673.0	1682.9	1711.2	1726.8
55°	1161.6	1178.6	1231.0	1294.8	1333.0
57.5°	752.2	784.8	852.8	925.0	951.9
60°	480.2	501.5	562.4	614.8	650.2
62.5°	314.5	321.6	355.6	403.7	405.1
65°	191.2	215.3	230.9	250.7	264.9
67.5°	124.7	124.7	138.8	157.2	161.5
70°	72.2	73.7	80.7	87.8	92.1
72.5°	39.7	43.9	48.2	55.2	62.3
75°	25.5	35.4	36.8	35.4	42.5
77.5°	17.0	17.0	14.2	24.1	25.5
80°	14.2	9.9	12.7	18.4	19.8
82.5°	0.0	1.4	1.4	2.8	0.0
85°	2.8	4.2	7.1	15.6	4.2
87.5°	0.0	4.2	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)