

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: P247197

Luminaire Tested: **LSR8B120D010 EC8B120830 8LBS0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247197  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-83)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B120D010 EC8B120830 8LBS0H  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12973.0 lumens  
Efficiency: N/A  
Efficacy: 109.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

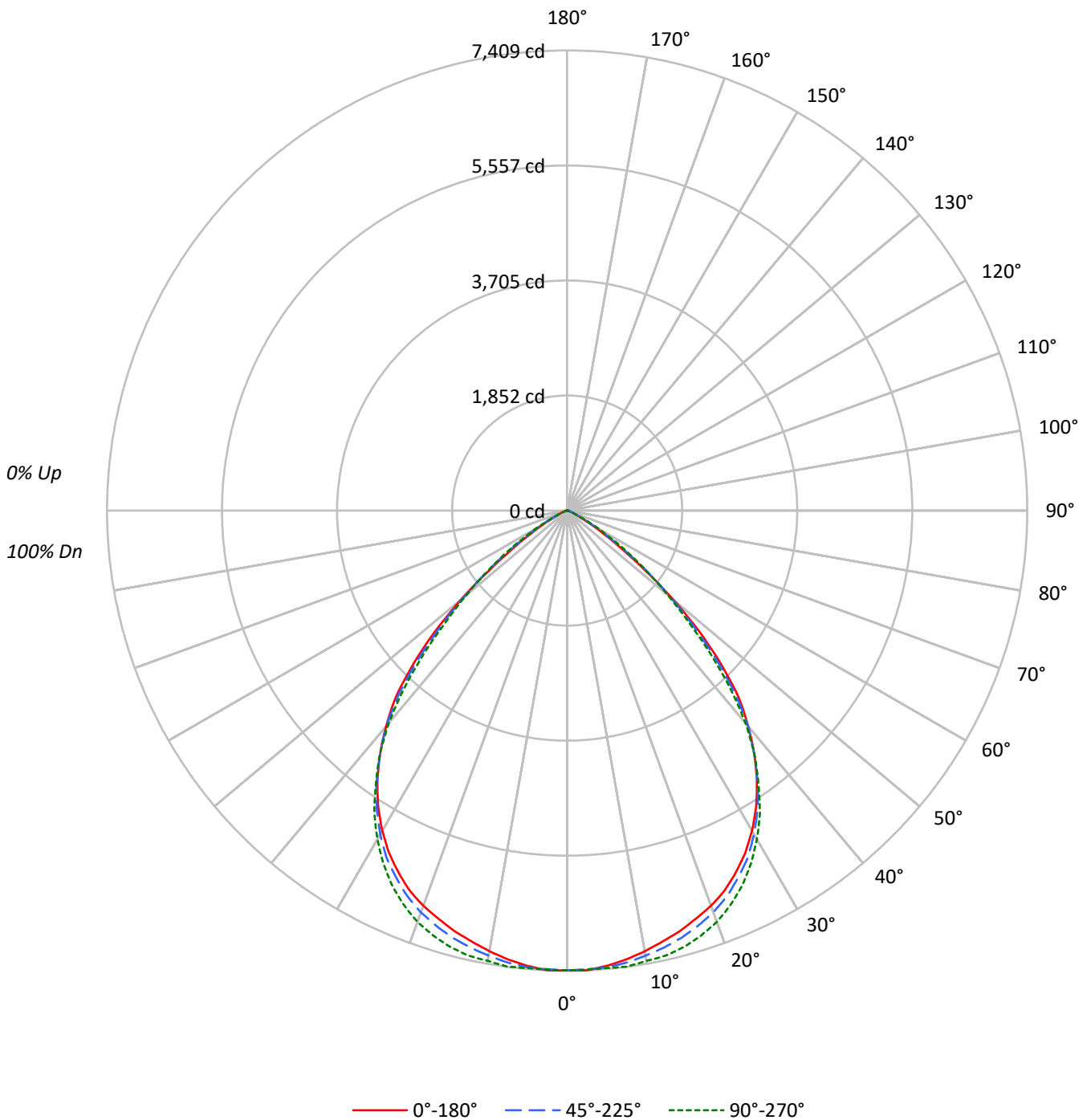
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	100	98	99	97	95	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48					48			
8	70	58	51	46	68	57	51	46	56	50	45	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40					40			
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36					36			

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

	0°	45°	90°
0°	228294	228294	228294
5°	227720	228376	228859
10°	225562	227823	230485
15°	223775	227303	232187
20°	222212	225884	231325
25°	218734	221769	226686
30°	211960	214278	217557
35°	200463	201370	202115
40°	182596	182427	179975
45°	153522	148886	142462
50°	106629	104250	101467
55°	57046	63062	66793
60°	27611	31367	35382
65°	12090	12200	12710
70°	6510	6005	5878
75°	5743	5230	3717
80°	249	1012	0
85°	495	495	2512



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	701.3	5.4
10°-20°	2011.2	15.5
20°-30°	3000.9	23.1
30°-40°	3323.6	25.6
40°-50°	2591.9	20.0
50°-60°	1086.4	8.4
60°-70°	217.6	1.7
70°-80°	34.6	0.3
80°-90°	5.4	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°	5713.5	44.0
0°-40°	9037.1	69.7
0°-60°	12715.4	98.0
0°-90°	12973.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12973.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7403	7403	7403	7403	7403	
5°	7357	7362	7378	7398	7394	697
15°	7010	7041	7120	7225	7273	1978
25°	6429	6454	6518	6619	6662	2954
35°	5325	5317	5349	5375	5369	3310
45°	3520	3505	3414	3309	3267	2663
55°	1061	1102	1173	1220	1242	1034
65°	166	166	167	180	174	200
75°	48	44	44	34	31	39
85°	1	3	1	0	7	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7403.4	7403.4	7403.4	7403.4	7403.4
2.5°	7409.1	7394.9	7392.1	7400.6	7394.9
5°	7356.7	7362.3	7377.9	7397.8	7393.5
7.5°	7288.7	7298.6	7341.1	7392.1	7404.8
10°	7203.7	7224.9	7275.9	7334.0	7360.9
12.5°	7104.5	7132.8	7206.5	7290.1	7339.7
15°	7009.6	7040.8	7120.1	7224.9	7273.1
17.5°	6890.6	6931.7	7009.6	7122.9	7172.5
20°	6771.6	6808.4	6883.5	6994.0	7049.3
22.5°	6624.3	6651.2	6722.0	6815.5	6872.2
25°	6428.8	6454.3	6518.0	6618.6	6662.5
27.5°	6210.6	6240.3	6298.4	6367.8	6407.5
30°	5952.8	5976.9	6017.9	6080.3	6110.0
32.5°	5662.4	5663.8	5704.9	5751.6	5778.5
35°	5325.2	5316.7	5349.3	5374.8	5369.1
37.5°	4952.6	4954.0	4951.2	4954.0	4959.7
40°	4536.1	4516.3	4531.9	4496.5	4471.0
42.5°	4094.1	4074.3	4013.4	3935.5	3893.0
45°	3520.4	3504.8	3414.1	3309.3	3266.8
47.5°	2890.0	2841.8	2768.1	2678.9	2637.8
50°	2222.7	2217.1	2173.1	2151.9	2115.1
52.5°	1589.5	1589.5	1643.3	1634.8	1633.4
55°	1061.1	1102.2	1173.0	1219.7	1242.4
57.5°	691.3	729.6	789.1	838.7	861.3
60°	447.7	466.1	508.6	546.8	573.7
62.5°	277.7	293.2	315.9	340.0	349.9
65°	165.7	165.7	167.2	179.9	174.2
67.5°	111.9	116.2	110.5	110.5	124.7
70°	72.2	68.0	66.6	65.2	65.2
72.5°	46.7	39.7	42.5	45.3	39.7
75°	48.2	43.9	43.9	34.0	31.2
77.5°	17.0	18.4	12.7	9.9	8.5
80°	1.4	5.7	5.7	1.4	0.0
82.5°	17.0	15.6	12.7	19.8	12.7
85°	1.4	2.8	1.4	0.0	7.1
87.5°	0.0	0.0	0.0	1.4	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)