

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: P247349

Luminaire Tested: **LSR8B120D010 EC8B120840 8LBS0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247349  
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 EC8B120840 8LBS0WMH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 4000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

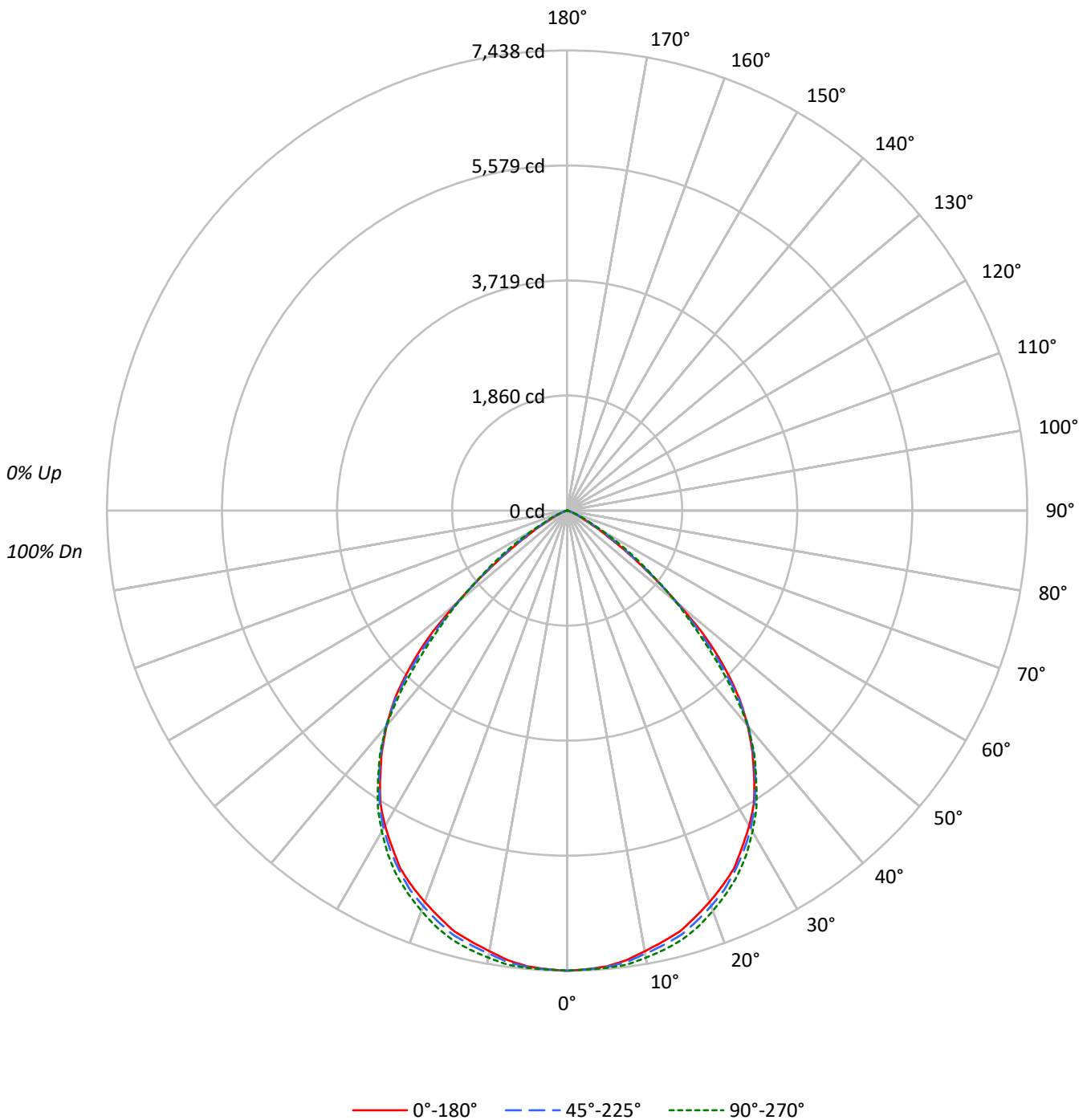
Lumens per Lamp: N/A  
Luminaire Lumens: 13122.0 lumens  
Efficiency: N/A  
Efficacy: 110.9 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.2 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	229351	229351	229351
5°	228868	229234	229639
10°	226430	227757	229774
15°	224829	226792	229221
20°	220923	223229	225966
25°	217111	218503	221541
30°	209595	211262	213241
35°	198340	199552	200598
40°	182632	183518	183043
45°	157455	153304	147176
50°	112405	110721	109388
55°	64519	68374	74040
60°	30596	35832	41432
65°	14418	17409	19971
70°	6726	7519	8574
75°	3133	4539	5230
80°	2593	2344	3640
85°	1026	2583	1557



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	702.8	5.4
10°-20°	1999.8	15.2
20°-30°	2954.3	22.5
30°-40°	3301.3	25.2
40°-50°	2665.2	20.3
50°-60°	1185.5	9.0
60°-70°	267.0	2.0
70°-80°	41.3	0.3
80°-90°	4.9	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°	5656.9	43.1
0°-40°	8958.2	68.3
0°-60°	12808.8	97.6
0°-90°	13122.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13122.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7438	7438	7438	7438	7438	
5°	7394	7392	7406	7407	7419	701
15°	7043	7047	7104	7157	7180	1981
25°	6381	6381	6422	6475	6511	2925
35°	5269	5266	5301	5307	5329	3284
45°	3611	3583	3515	3391	3375	2730
55°	1200	1218	1272	1338	1377	1129
65°	198	222	239	259	274	230
75°	26	37	38	37	44	34
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°	7437.7	7437.7	7437.7	7437.7	7437.7
2.5°	7418.7	7414.3	7421.6	7417.3	7424.6
5°	7393.8	7392.4	7405.6	7407.0	7418.7
7.5°	7329.4	7330.9	7358.7	7379.2	7402.6
10°	7231.4	7237.2	7273.8	7319.2	7338.2
12.5°	7137.7	7145.0	7191.9	7254.8	7269.4
15°	7042.6	7047.0	7104.1	7156.7	7180.2
17.5°	6887.5	6916.7	6960.6	7020.6	7051.4
20°	6732.3	6752.8	6802.6	6868.4	6886.0
22.5°	6562.5	6584.5	6634.3	6688.4	6707.4
25°	6381.1	6381.1	6422.0	6474.7	6511.3
27.5°	6127.9	6158.6	6187.9	6234.7	6271.3
30°	5886.4	5898.1	5933.2	5971.3	5988.8
32.5°	5618.6	5620.0	5636.1	5678.6	5694.7
35°	5268.8	5265.8	5301.0	5306.8	5328.8
37.5°	4919.0	4933.6	4946.8	4967.3	4968.7
40°	4537.0	4544.3	4559.0	4537.0	4547.2
42.5°	4121.3	4111.1	4083.3	4017.4	3989.6
45°	3610.6	3582.8	3515.4	3391.0	3374.9
47.5°	3047.1	2978.3	2896.4	2804.2	2786.6
50°	2343.1	2349.0	2308.0	2277.3	2280.2
52.5°	1708.0	1728.4	1738.7	1768.0	1784.1
55°	1200.1	1217.7	1271.8	1337.7	1377.2
57.5°	777.1	810.8	881.1	955.7	983.5
60°	496.1	518.1	581.0	635.2	671.8
62.5°	324.9	332.2	367.4	417.1	418.6
65°	197.6	222.5	238.6	259.0	273.7
67.5°	128.8	128.8	143.4	162.5	166.8
70°	74.6	76.1	83.4	90.7	95.1
72.5°	41.0	45.4	49.8	57.1	64.4
75°	26.3	36.6	38.1	36.6	43.9
77.5°	17.6	17.6	14.6	24.9	26.3
80°	14.6	10.2	13.2	19.0	20.5
82.5°	0.0	1.5	1.5	2.9	0.0
85°	2.9	4.4	7.3	16.1	4.4
87.5°	0.0	4.4	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)