

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: P247489

Luminaire Tested: **LSR8B120D010 EC8B120835 8LBW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247489
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-61)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120835 8LBW0GPH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11183.0 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.13 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

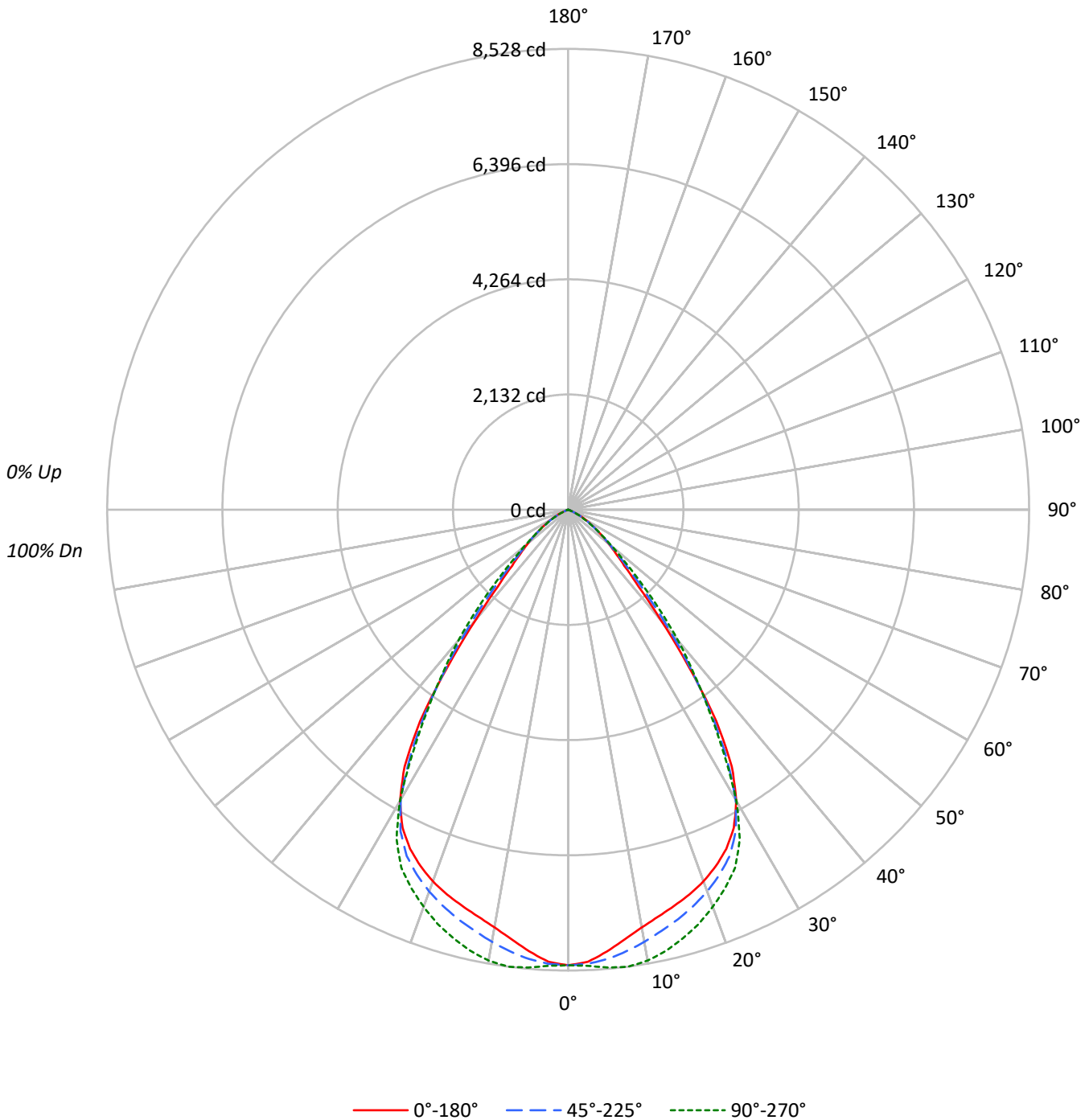
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94					92				
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	85					84				
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78					76				
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71					69				
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65					63				
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60					58				
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55					53				
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51					49				
9	70	59	52	48	68	58	52	48	57	52	47	56	51	47	55	51	47					46				
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44					42				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	259969	259969	259969
5°	254074	258362	263286
10°	245665	254244	265316
15°	242192	250467	262084
20°	240156	246729	256639
25°	235518	240530	248601
30°	221403	220562	221613
35°	179890	173848	171187
40°	106798	117707	127492
45°	63918	71951	81715
50°	46572	47771	51307
55°	33735	32547	33262
60°	22893	21166	20352
65°	11499	10638	10106
70°	3192	2786	2524
75°	1227	882	882
80°	515	515	266
85°	531	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	790.4	7.1
10°-20°	2219.8	19.8
20°-30°	3226.3	28.9
30°-40°	2853.1	25.5
40°-50°	1357.3	12.1
50°-60°	565.4	5.1
60°-70°	157.9	1.4
70°-80°	11.9	0.1
80°-90°	0.9	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°	6236.5	55.8
0°-40°	9089.6	81.3
0°-60°	11012.3	98.5
0°-90°	11183.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11183.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8431	8431	8431	8431	8431	
5°	8208	8249	8347	8457	8506	772
15°	7586	7656	7846	8084	8210	2143
25°	6922	6953	7069	7226	7307	3164
35°	4779	4711	4618	4548	4548	2860
45°	1466	1517	1650	1803	1874	1220
55°	628	620	605	605	619	571
65°	158	155	146	140	138	172
75°	10	9	7	7	7	14
85°	2	2	0	0	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8430.6	8430.6	8430.6	8430.6	8430.6
2.5°	8374.6	8382.0	8409.9	8436.5	8448.2
5°	8208.1	8249.4	8346.6	8457.1	8505.7
7.5°	8018.1	8080.0	8243.5	8437.9	8527.8
10°	7845.7	7923.8	8119.7	8359.9	8473.3
12.5°	7710.2	7782.4	7982.7	8233.2	8361.3
15°	7586.5	7655.7	7845.7	8084.4	8209.6
17.5°	7462.7	7529.0	7692.5	7915.0	8035.8
20°	7318.4	7371.4	7518.7	7714.6	7820.7
22.5°	7138.7	7187.3	7311.0	7484.8	7580.6
25°	6922.1	6953.0	7069.4	7225.6	7306.6
27.5°	6634.9	6642.2	6712.9	6814.6	6875.0
30°	6218.0	6213.5	6194.4	6190.0	6223.9
32.5°	5634.6	5569.8	5457.8	5404.8	5363.6
35°	4778.7	4711.0	4618.2	4547.5	4547.5
37.5°	3653.3	3712.2	3749.0	3793.2	3815.3
40°	2653.1	2740.0	2924.1	3115.6	3167.2
42.5°	1928.3	2009.3	2208.2	2421.8	2483.7
45°	1465.7	1517.3	1649.9	1803.1	1873.8
47.5°	1184.4	1199.1	1265.4	1356.7	1390.6
50°	970.8	975.2	995.8	1043.0	1069.5
52.5°	785.2	782.2	788.1	801.4	813.2
55°	627.5	620.2	605.4	605.4	618.7
57.5°	484.7	474.3	458.1	450.8	446.4
60°	371.2	360.9	343.2	331.4	330.0
62.5°	266.6	257.8	240.1	229.8	226.9
65°	157.6	154.7	145.8	139.9	138.5
67.5°	73.7	70.7	63.3	60.4	58.9
70°	35.4	33.9	30.9	29.5	28.0
72.5°	17.7	17.7	14.7	14.7	14.7
75°	10.3	8.8	7.4	7.4	7.4
77.5°	5.9	4.4	4.4	4.4	4.4
80°	2.9	2.9	2.9	1.5	1.5
82.5°	1.5	1.5	1.5	1.5	1.5
85°	1.5	1.5	0.0	0.0	0.0
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)