

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: P250179

Luminaire Tested: **LSR8B120D010 EC8B120940 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250179
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13942)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120940 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11016.0 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.8 / 0.85
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

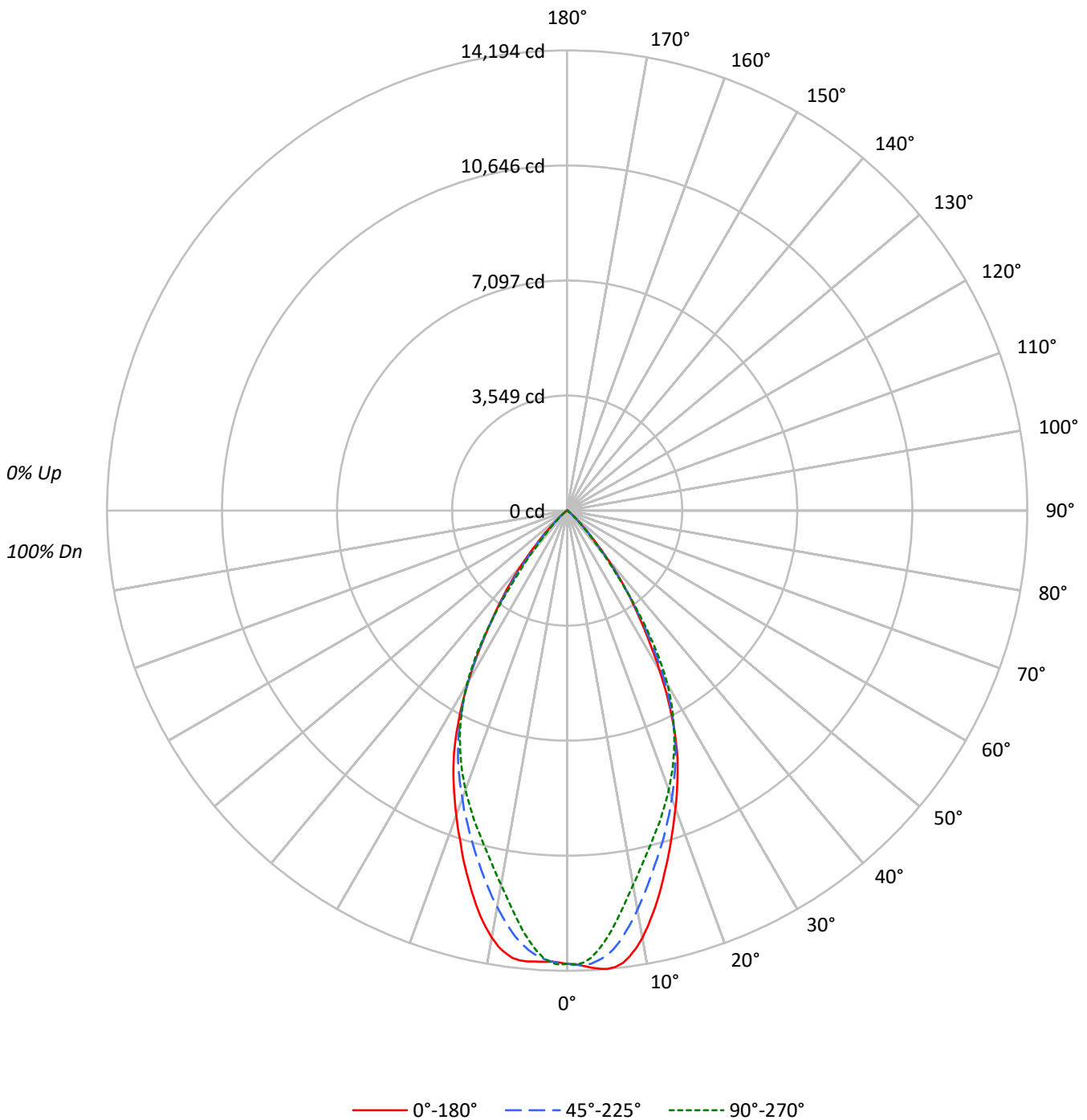
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100	100	100	100		
1	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94	94	94	94	94	94	94		
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87	87	87	87	87	87	87		
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81	81	81	81	81	81	81		
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76	76	76	76	76	76	76		
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71	71	71	71	71	71	71		
6	88	80	74	69	87	79	73	69	77	72	69	76	72	68	75	71	68	66	66	66	66	66	66	66		
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62	62	62	62	62	62	62		
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58	58	58	58	58	58	58		
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	64	59	56	55	55	55	55	55	55	55		
10	73	63	57	54	72	63	57	54	62	57	53	61	56	53	60	56	53	52	52	52	52	52	52	52		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	431101	431101	431101
5°	439375	412758	432218
10°	418911	367187	418804
15°	369914	331177	376210
20°	320570	300601	328153
25°	270852	266225	280798
30°	203571	220395	217489
35°	136272	144079	147787
40°	76350	65537	87568
45°	30683	26977	36466
50°	10597	10276	12554
55°	2925	3473	3290
60°	1677	2097	1887
65°	1488	1240	992
70°	0	920	613
75°	0	0	0
80°	0	0	604
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1269.1	11.5
10°-20°	3069.6	27.9
20°-30°	3597.7	32.7
30°-40°	2367.1	21.5
40°-50°	617.7	5.6
50°-60°	76.0	0.7
60°-70°	15.8	0.1
70°-80°	2.9	0.0
80°-90°	0.1	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°	7936.4	72.0
0°-40°	10303.5	93.5
0°-60°	10997.2	99.8
0°-90°	11016.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11016.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13980	13980	13980	13980	13980	
5°	14194	13790	13334	13610	13963	###
15°	11587	10931	10374	10931	11784	3230
25°	7961	7882	7825	7957	8253	3589
35°	3620	3702	3827	3865	3926	2267
45°	704	663	619	717	836	631
55°	54	58	65	65	61	72
65°	20	17	17	14	14	14
75°	0	3	0	0	0	2
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	13980.3	13980.3	13980.3	13980.3	13980.3	13980.3	13980.3	13980.3	13980.3
1°	13990.4	14010.9	14017.6	14038.1	14007.5	13987.1	13959.9	13939.5	13942.9
2°	14051.6	14061.9	14024.5	14010.9	13956.5	13939.5	13919.1	13915.7	13919.1
3°	14116.3	14095.8	13997.3	13905.5	13823.9	13813.7	13851.1	13905.5	13936.0
4°	14167.2	14112.9	13905.5	13735.5	13606.4	13596.2	13745.7	13885.1	13942.9
5°	14194.4	14095.8	13789.9	13504.4	13334.5	13399.0	13609.8	13857.9	13963.2
6°	14157.0	14010.9	13613.2	13232.5	13038.7	13123.7	13433.0	13793.3	13949.7
7°	14061.9	13874.9	13385.5	12936.8	12698.8	12831.4	13225.7	13684.5	13898.7
8°	13885.1	13660.8	13096.5	12593.4	12358.9	12508.4	12970.8	13528.2	13776.4
9°	13653.9	13405.8	12811.0	12280.7	12029.2	12206.0	12705.6	13320.8	13606.4
10°	13378.6	13113.5	12494.9	11954.5	11726.7	11893.2	12420.1	13079.5	13375.2
11°	13055.7	12800.8	12178.8	11648.6	11431.0	11594.2	12134.6	12790.6	13110.1
12°	12705.6	12471.1	11855.9	11352.8	11148.9	11305.2	11828.7	12491.5	12807.6
13°	12355.5	12121.0	11543.2	11067.3	10880.3	11029.9	11529.5	12165.2	12481.3
14°	11978.2	11764.1	11230.5	10795.3	10625.4	10768.1	11223.7	11835.4	12134.6
15°	11587.3	11417.4	10931.3	10533.6	10373.9	10509.8	10931.3	11495.5	11784.5
16°	11220.2	11063.9	10642.4	10275.3	10142.8	10251.5	10635.6	11155.7	11431.0
17°	10846.3	10703.6	10353.5	10020.4	9901.4	10006.8	10333.1	10812.4	11060.5
18°	10472.5	10353.5	10037.4	9751.9	9646.5	9741.7	10034.0	10465.7	10690.0
19°	10125.7	10017.0	9748.5	9507.1	9412.0	9496.9	9772.3	10132.6	10356.9
20°	9768.9	9680.5	9445.9	9248.8	9160.4	9238.6	9452.7	9802.9	10000.0
21°	9425.5	9347.4	9143.4	8976.8	8905.5	8970.1	9167.2	9483.3	9656.7
22°	9068.7	9024.5	8840.9	8701.6	8654.0	8694.7	8874.9	9146.8	9310.0
23°	8718.5	8677.8	8538.4	8422.9	8382.0	8422.9	8582.6	8827.3	8973.5
24°	8365.1	8320.9	8218.9	8144.1	8110.1	8144.1	8280.1	8487.4	8626.8
25°	7960.6	7953.8	7882.4	7841.6	7824.6	7862.0	7957.2	8137.3	8252.9
26°	7573.0	7552.7	7532.3	7525.5	7528.9	7549.2	7627.4	7763.4	7855.2
27°	7097.2	7127.8	7158.4	7199.2	7212.7	7229.8	7267.1	7365.7	7433.7
28°	6641.7	6699.5	6774.3	6855.9	6893.3	6893.3	6896.6	6951.0	7008.8
29°	6189.7	6250.8	6369.8	6492.2	6543.2	6536.3	6509.1	6532.9	6566.9
30°	5717.2	5795.4	5955.1	6114.9	6189.7	6162.5	6111.5	6087.7	6108.1
31°	5254.9	5333.1	5509.9	5683.2	5781.7	5751.2	5662.8	5645.8	5656.0
32°	4813.1	4891.2	5054.3	5237.9	5350.1	5309.3	5217.5	5190.3	5193.7
33°	4384.8	4446.0	4595.5	4765.5	4857.2	4847.0	4772.2	4738.3	4741.6
34°	3980.3	4031.3	4143.4	4272.6	4361.0	4357.6	4303.2	4306.6	4316.8
35°	3620.0	3647.2	3701.5	3773.0	3827.4	3857.9	3864.7	3891.9	3925.9
37.5°	2736.3	2746.4	2681.9	2610.4	2596.9	2685.3	2838.2	2970.8	3021.8
40°	1896.7	1872.9	1791.3	1665.5	1628.1	1726.8	1920.5	2107.4	2175.4
42.5°	1179.5	1169.3	1118.3	1023.1	989.1	1046.9	1193.1	1335.9	1403.8
45°	703.6	690.0	662.8	625.4	618.6	642.4	717.2	798.8	836.2
47.5°	404.5	401.1	384.1	370.5	367.1	384.1	418.1	465.7	475.9
50°	220.9	217.6	214.2	214.2	214.2	224.3	241.4	254.9	261.7
52.5°	108.8	112.2	108.8	112.2	115.6	122.3	118.9	132.6	132.6
55°	54.4	51.0	57.8	64.6	64.6	64.6	64.6	64.6	61.2
57.5°	40.8	44.2	37.4	40.8	37.4	37.4	34.0	37.4	40.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	27.2	23.8	27.2	30.6	34.0	30.6	23.8	27.2	30.6
62.5°	13.6	13.6	13.6	20.4	30.6	23.8	20.4	17.0	17.0
65°	20.4	13.6	17.0	20.4	17.0	17.0	13.6	17.0	13.6
67.5°	10.2	17.0	10.2	6.8	10.2	13.6	10.2	6.8	6.8
70°	0.0	3.4	3.4	10.2	10.2	10.2	10.2	6.8	6.8
72.5°	3.4	3.4	3.4	6.8	3.4	6.8	3.4	3.4	6.8
75°	0.0	0.0	3.4	3.4	0.0	3.4	0.0	0.0	0.0
77.5°	3.4	0.0	3.4	3.4	0.0	0.0	0.0	3.4	0.0
80°	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	3.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)