

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: P247524

Luminaire Tested: **LSR8B100D010 EC8B1009730 8LBWOGPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247524
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: LSR8B100D010 EC8B1009730 8LBW0GPH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7267.0 lumens
Efficiency: N/A
Efficacy: 68.4 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.13 / 1.05
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

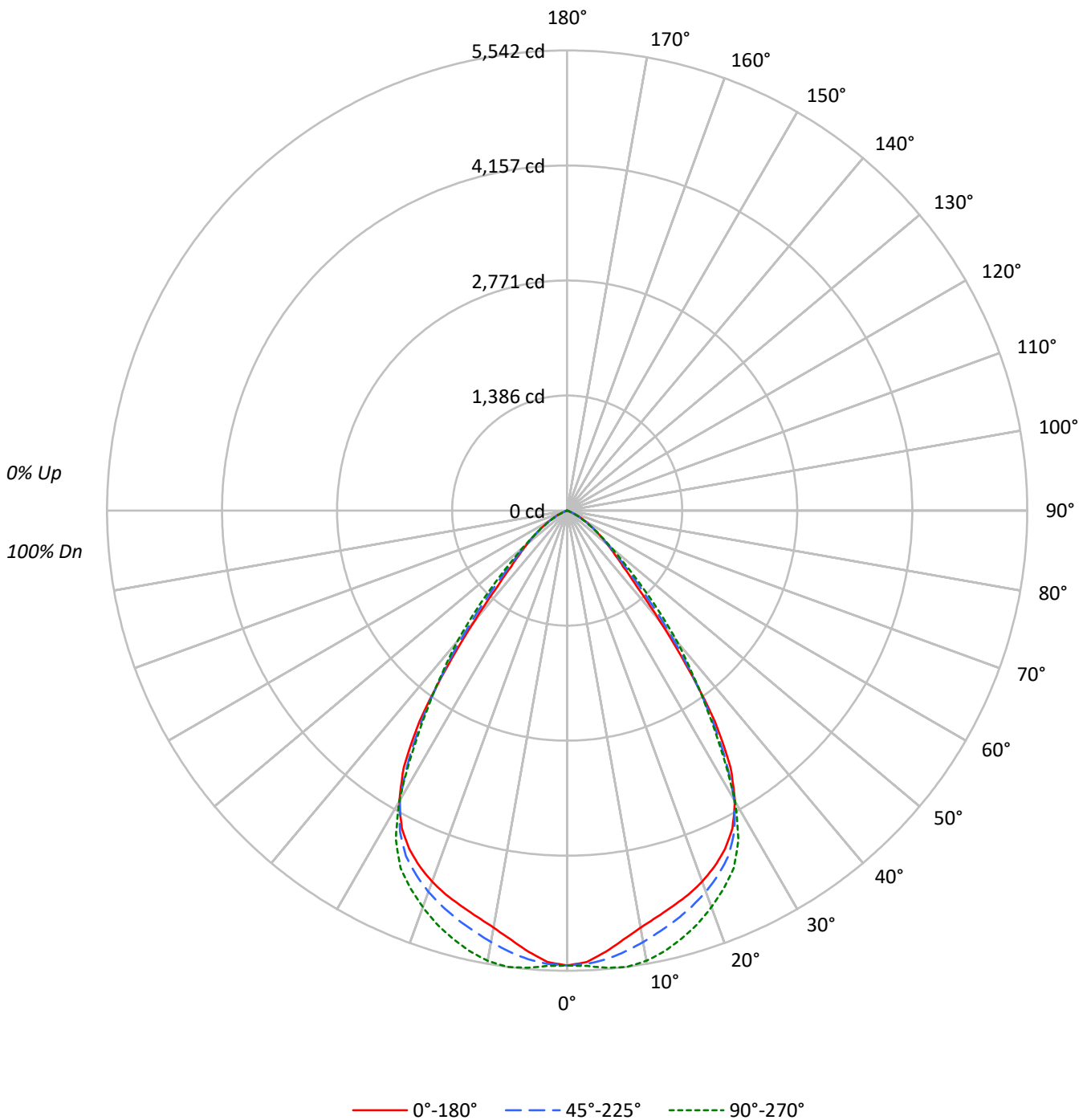
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100			
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92	92	92	92			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	85	84	84	84	84			
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76	76	76	76			
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69	69	69	69			
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63	63	63	63			
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58	58	58	58			
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	53	53	53	53			
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	49	49	49	49			
9	70	59	52	48	68	58	52	48	57	52	47	56	51	47	55	51	47	46	46	46	46			
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44	42	42	42	42			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	513.6	7.1
10°-20°	1442.5	19.8
20°-30°	2096.5	28.9
30°-40°	1854.0	25.5
40°-50°	882.0	12.1
50°-60°	367.4	5.1
60°-70°	102.6	1.4
70°-80°	7.8	0.1
80°-90°	0.6	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°	4052.7	55.8
0°-40°	5906.7	81.3
0°-60°	7156.0	98.5
0°-90°	7267.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7267.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5478	5478	5478	5478	5478	
5°	5334	5361	5424	5496	5527	502
15°	4930	4975	5098	5253	5335	1392
25°	4498	4518	4594	4695	4748	2056
35°	3105	3061	3001	2955	2955	1859
45°	952	986	1072	1172	1218	793
55°	408	403	393	393	402	371
65°	102	100	95	91	90	112
75°	7	6	5	5	5	9
85°	1	1	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°	5478.4	5478.4	5478.4	5478.4	5478.4
2.5°	5442.0	5446.8	5465.0	5482.2	5489.9
5°	5333.9	5360.7	5423.8	5495.6	5527.2
7.5°	5210.4	5250.6	5356.8	5483.2	5541.6
10°	5098.4	5149.1	5276.4	5432.4	5506.2
12.5°	5010.3	5057.2	5187.4	5350.1	5433.4
15°	4929.9	4974.9	5098.4	5253.4	5334.8
17.5°	4849.5	4892.6	4998.8	5143.4	5221.9
20°	4755.7	4790.1	4885.9	5013.2	5082.1
22.5°	4638.9	4670.5	4750.9	4863.8	4926.1
25°	4498.2	4518.3	4593.9	4695.4	4748.0
27.5°	4311.5	4316.3	4362.2	4428.3	4467.5
30°	4040.6	4037.7	4025.3	4022.4	4044.4
32.5°	3661.5	3619.4	3546.6	3512.2	3485.4
35°	3105.4	3061.3	3001.0	2955.1	2955.1
37.5°	2374.0	2412.3	2436.2	2464.9	2479.3
40°	1724.0	1780.5	1900.2	2024.6	2058.1
42.5°	1253.1	1305.7	1434.9	1573.7	1613.9
45°	952.5	986.0	1072.1	1171.7	1217.6
47.5°	769.6	779.2	822.3	881.6	903.7
50°	630.8	633.7	647.1	677.7	695.0
52.5°	510.2	508.3	512.1	520.7	528.4
55°	407.8	403.0	393.4	393.4	402.0
57.5°	314.9	308.2	297.7	292.9	290.0
60°	241.2	234.5	223.0	215.4	214.4
62.5°	173.3	167.5	156.0	149.3	147.4
65°	102.4	100.5	94.8	90.9	90.0
67.5°	47.9	45.9	41.2	39.2	38.3
70°	23.0	22.0	20.1	19.1	18.2
72.5°	11.5	11.5	9.6	9.6	9.6
75°	6.7	5.7	4.8	4.8	4.8
77.5°	3.8	2.9	2.9	2.9	2.9
80°	1.9	1.9	1.9	1.0	1.0
82.5°	1.0	1.0	1.0	1.0	1.0
85°	1.0	1.0	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)