

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: P247523

Luminaire Tested: **LSR8B90D010 EC8B90930 8LBW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247523
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: LSR8B90D010 EC8B90930 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: 7060.1 lumens
Efficiency: N/A
Efficacy: 82.0 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

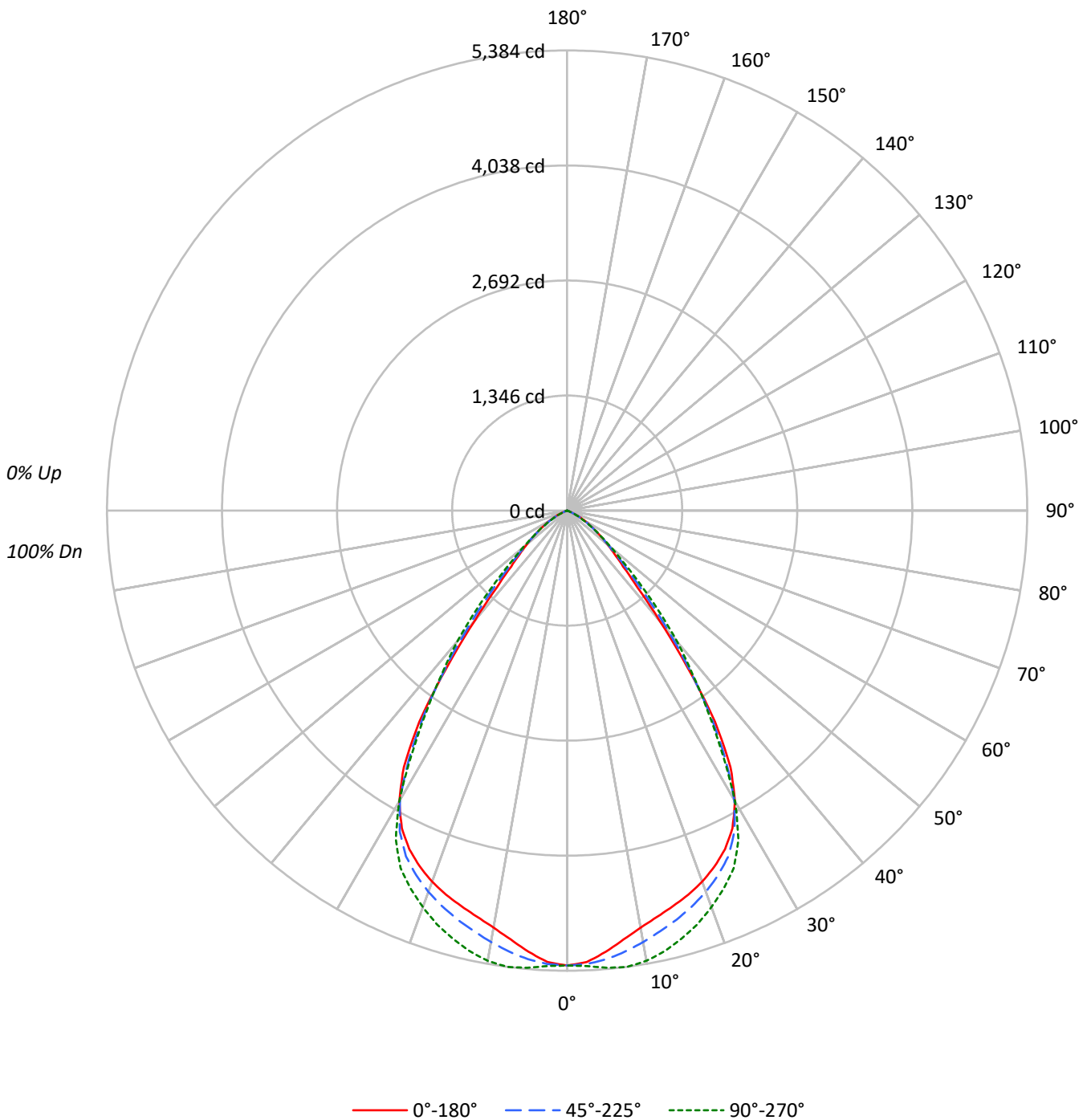
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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°	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°	499.0	7.1
10°-20°	1401.4	19.8
20°-30°	2036.8	28.9
30°-40°	1801.2	25.5
40°-50°	856.9	12.1
50°-60°	356.9	5.1
60°-70°	99.7	1.4
70°-80°	7.5	0.1
80°-90°	0.5	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°	3937.2	55.8
0°-40°	5738.5	81.3
0°-60°	6952.3	98.5
0°-90°	7060.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7060.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5322	5322	5322	5322	5322	
5°	5182	5208	5269	5339	5370	487
15°	4790	4833	4953	5104	5183	1353
25°	4370	4390	4463	4562	4613	1997
35°	3017	2974	2916	2871	2871	1806
45°	925	958	1042	1138	1183	770
55°	396	392	382	382	391	360
65°	100	98	92	88	87	108
75°	6	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°	5322.4	5322.4	5322.4	5322.4	5322.4
2.5°	5287.1	5291.7	5309.4	5326.1	5333.5
5°	5181.9	5208.1	5269.4	5339.1	5369.8
7.5°	5062.0	5101.0	5204.2	5327.0	5383.7
10°	4953.1	5002.5	5126.1	5277.8	5349.4
12.5°	4867.6	4913.2	5039.7	5197.7	5278.7
15°	4789.5	4833.2	4953.1	5103.8	5182.9
17.5°	4711.3	4753.3	4856.5	4996.9	5073.2
20°	4620.2	4653.7	4746.8	4870.4	4937.3
22.5°	4506.8	4537.5	4615.6	4725.4	4785.8
25°	4370.1	4389.6	4463.0	4561.7	4612.8
27.5°	4188.7	4193.3	4238.1	4302.2	4340.3
30°	3925.5	3922.7	3910.6	3907.8	3929.2
32.5°	3557.3	3516.4	3445.6	3412.2	3386.1
35°	3016.9	2974.1	2915.5	2870.9	2870.9
37.5°	2306.3	2343.6	2366.9	2394.8	2408.7
40°	1674.9	1729.8	1846.1	1966.9	1999.5
42.5°	1217.4	1268.5	1394.1	1528.9	1567.9
45°	925.4	957.9	1041.6	1138.4	1183.0
47.5°	747.7	757.0	798.8	856.6	878.0
50°	612.9	615.7	628.7	658.5	675.2
52.5°	495.7	493.8	497.5	505.9	513.3
55°	396.2	391.6	382.3	382.3	390.6
57.5°	305.9	299.4	289.2	284.6	281.8
60°	234.4	227.9	216.7	209.3	208.3
62.5°	168.4	162.8	151.6	145.1	143.3
65°	99.5	97.6	92.0	88.3	87.4
67.5°	46.5	44.6	40.0	38.1	37.2
70°	22.3	21.4	19.5	18.6	17.7
72.5°	11.2	11.2	9.3	9.3	9.3
75°	6.5	5.6	4.6	4.6	4.6
77.5°	3.7	2.8	2.8	2.8	2.8
80°	1.9	1.9	1.9	0.9	0.9
82.5°	0.9	0.9	0.9	0.9	0.9
85°	0.9	0.9	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)