

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 EC8B909730 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 EC8B909730 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: 6298.0 lumens
Efficiency: N/A
Efficacy: 73.1 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

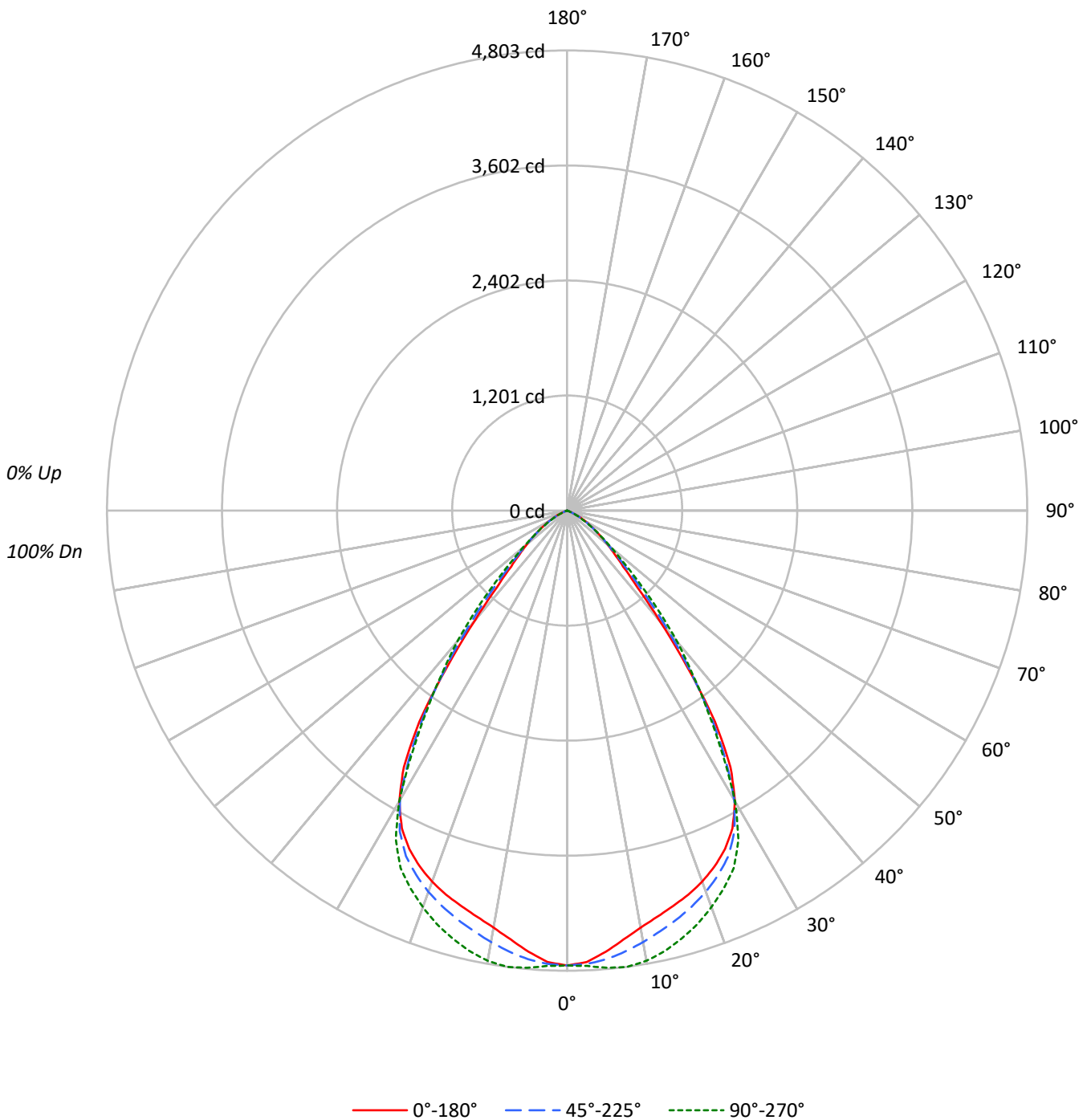
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92	92	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	85	84	84	84
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76	76	76
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69	69	69
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63	63	63
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58	58	58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	53	53	53
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	49	49	49
9	70	59	52	48	68	58	52	48	57	52	47	56	51	47	55	51	47	46	46	46
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44	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°	445.2	7.1
10°-20°	1250.1	19.8
20°-30°	1817.0	28.9
30°-40°	1606.8	25.5
40°-50°	764.4	12.1
50°-60°	318.4	5.1
60°-70°	89.0	1.4
70°-80°	6.7	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°	3512.3	55.8
0°-40°	5119.1	81.3
0°-60°	6201.8	98.5
0°-90°	6298.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6298.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4748	4748	4748	4748	4748	
5°	4623	4646	4701	4763	4790	435
15°	4272	4312	4418	4553	4624	1207
25°	3898	3916	3981	4069	4115	1782
35°	2691	2653	2601	2561	2561	1611
45°	826	854	929	1016	1055	687
55°	353	349	341	341	348	322
65°	89	87	82	79	78	97
75°	6	5	4	4	4	8
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°	4747.9	4747.9	4747.9	4747.9	4747.9
2.5°	4716.4	4720.5	4736.3	4751.2	4757.8
5°	4622.6	4645.9	4700.6	4762.8	4790.2
7.5°	4515.6	4550.4	4642.5	4752.0	4802.6
10°	4418.5	4462.5	4572.8	4708.1	4772.0
12.5°	4342.2	4382.9	4495.7	4636.7	4708.9
15°	4272.5	4311.5	4418.5	4552.9	4623.5
17.5°	4202.8	4240.2	4332.3	4457.5	4525.6
20°	4121.5	4151.4	4234.4	4344.7	4404.4
22.5°	4020.3	4047.7	4117.4	4215.3	4269.2
25°	3898.4	3915.8	3981.3	4069.3	4114.9
27.5°	3736.6	3740.7	3780.6	3837.8	3871.8
30°	3501.8	3499.3	3488.5	3486.0	3505.1
32.5°	3173.3	3136.8	3073.7	3043.9	3020.6
35°	2691.3	2653.1	2600.8	2561.0	2561.0
37.5°	2057.4	2090.6	2111.4	2136.3	2148.7
40°	1494.1	1543.1	1646.8	1754.6	1783.7
42.5°	1086.0	1131.6	1243.6	1363.9	1398.7
45°	825.5	854.5	929.2	1015.5	1055.3
47.5°	667.0	675.3	712.6	764.1	783.2
50°	546.7	549.2	560.8	587.4	602.3
52.5°	442.2	440.5	443.8	451.3	457.9
55°	353.4	349.3	341.0	341.0	348.4
57.5°	272.9	267.1	258.0	253.9	251.4
60°	209.1	203.3	193.3	186.7	185.8
62.5°	150.2	145.2	135.2	129.4	127.8
65°	88.8	87.1	82.1	78.8	78.0
67.5°	41.5	39.8	35.7	34.0	33.2
70°	19.9	19.1	17.4	16.6	15.8
72.5°	10.0	10.0	8.3	8.3	8.3
75°	5.8	5.0	4.1	4.1	4.1
77.5°	3.3	2.5	2.5	2.5	2.5
80°	1.7	1.7	1.7	0.8	0.8
82.5°	0.8	0.8	0.8	0.8	0.8
85°	0.8	0.8	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)