

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: P247187

Luminaire Tested: **LSR8B90D010 EC8B909730 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247187
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-58)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B909730 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6998.0 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.06
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

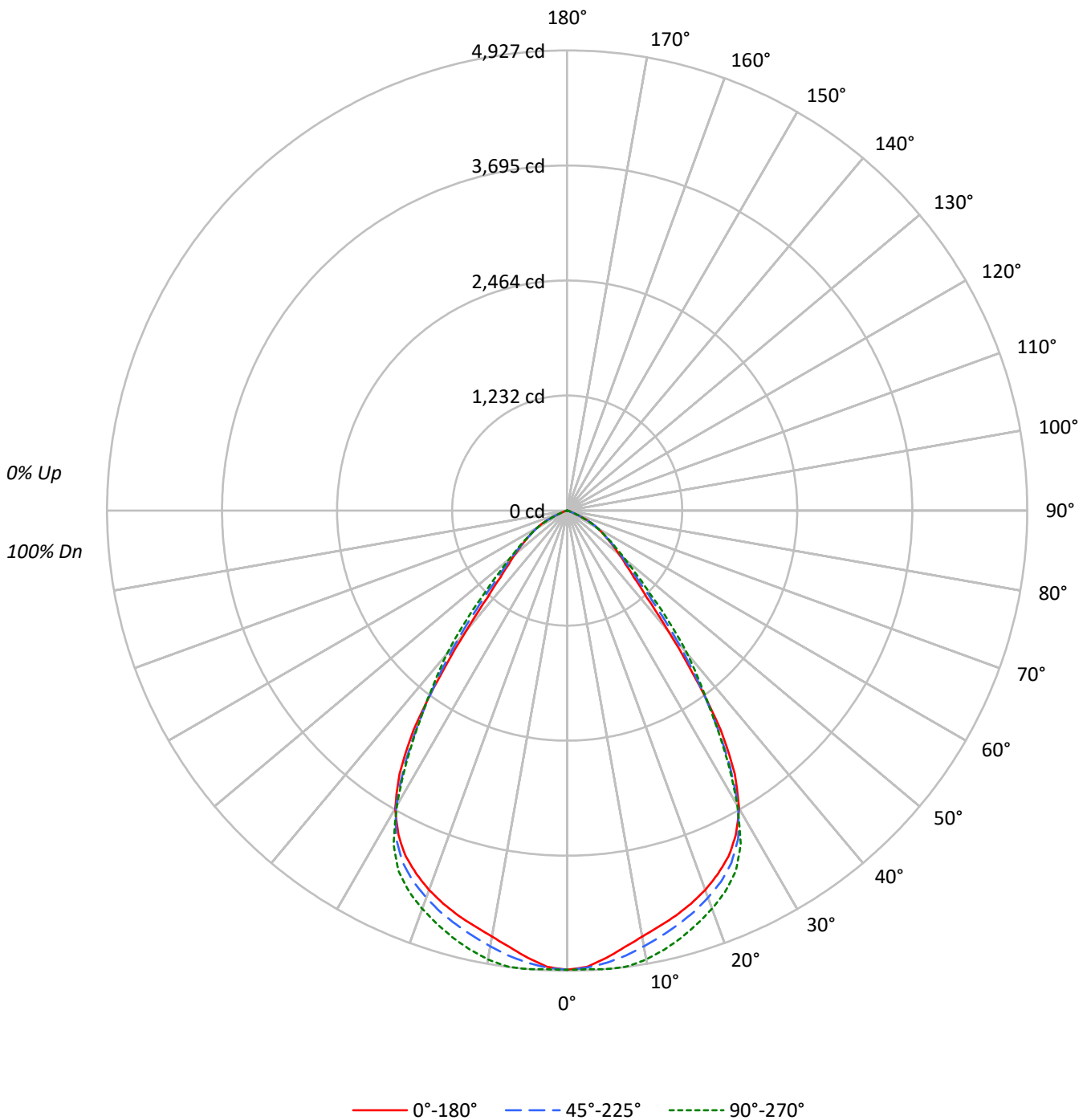
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				
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	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91	91	91	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82	82	82	82
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74	74	74	74
4	93	84	77	72	91	82	76	72	80	75	71	78	74	70	76	72	69	67	67	67	67
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61	61	61	61
6	81	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	57	56	56	56	56
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51	51	51	51
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	49	47	47	47	47
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43	43	43	43
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40	40	40	40

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°	460.5	6.6
10°-20°	1297.6	18.5
20°-30°	1897.7	27.1
30°-40°	1719.6	24.6
40°-50°	914.3	13.1
50°-60°	488.0	7.0
60°-70°	199.0	2.8
70°-80°	20.1	0.3
80°-90°	1.2	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°	3655.8	52.2
0°-40°	5375.4	76.8
0°-60°	6777.7	96.9
0°-90°	6998.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6998.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4916	4916	4916	4916	4916	
5°	4808	4820	4860	4904	4927	453
15°	4491	4516	4590	4684	4732	1267
25°	4088	4105	4161	4233	4266	1868
35°	2865	2825	2766	2746	2751	1722
45°	1011	1040	1127	1216	1249	827
55°	527	526	536	544	553	478
65°	206	205	200	188	189	205
75°	15	15	14	13	13	22
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4916.4	4916.4	4916.4	4916.4	4916.4
2.5°	4889.9	4889.0	4898.2	4908.9	4914.8
5°	4807.7	4820.2	4860.0	4904.0	4927.2
7.5°	4714.8	4738.0	4806.9	4882.4	4923.1
10°	4631.0	4660.8	4736.4	4835.1	4879.9
12.5°	4558.8	4587.8	4664.2	4765.4	4814.4
15°	4490.7	4516.5	4589.5	4684.1	4732.2
17.5°	4411.9	4436.8	4507.3	4596.9	4638.4
20°	4323.1	4343.9	4410.3	4494.1	4536.4
22.5°	4212.8	4235.2	4302.4	4379.5	4419.4
25°	4087.5	4104.9	4161.3	4232.7	4265.9
27.5°	3913.2	3929.0	3962.2	4000.3	4025.2
30°	3682.5	3678.4	3665.9	3654.3	3643.5
32.5°	3342.3	3302.5	3241.9	3203.8	3205.4
35°	2865.2	2825.4	2766.5	2745.7	2750.7
37.5°	2238.7	2268.6	2292.7	2332.5	2351.6
40°	1677.8	1729.2	1851.2	1957.4	2001.4
42.5°	1261.3	1311.9	1439.7	1551.7	1612.3
45°	1010.7	1040.5	1126.8	1216.4	1248.8
47.5°	846.4	859.6	909.4	966.7	994.9
50°	724.4	732.7	759.2	790.8	809.0
52.5°	620.7	624.0	637.3	655.5	667.1
55°	526.9	526.1	536.0	543.5	552.6
57.5°	445.6	444.8	444.8	447.2	453.1
60°	375.9	373.4	373.4	370.1	371.7
62.5°	306.2	303.7	297.9	293.7	292.1
65°	205.8	205.0	200.0	188.4	189.2
67.5°	107.0	106.2	101.2	97.9	96.3
70°	57.3	55.6	53.1	50.6	49.0
72.5°	29.0	28.2	27.4	25.7	25.7
75°	14.9	14.9	14.1	13.3	13.3
77.5°	7.5	7.5	6.6	6.6	6.6
80°	4.1	4.1	3.3	3.3	3.3
82.5°	1.7	1.7	1.7	1.7	1.7
85°	0.8	0.8	0.8	0.8	0.8
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)