

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: P247381

Luminaire Tested: **LSR8B120D010 EC8B1209730 8LBS0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247381
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-84)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B1209730 8LBS0WMH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9730.0 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.2 / 1.23
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

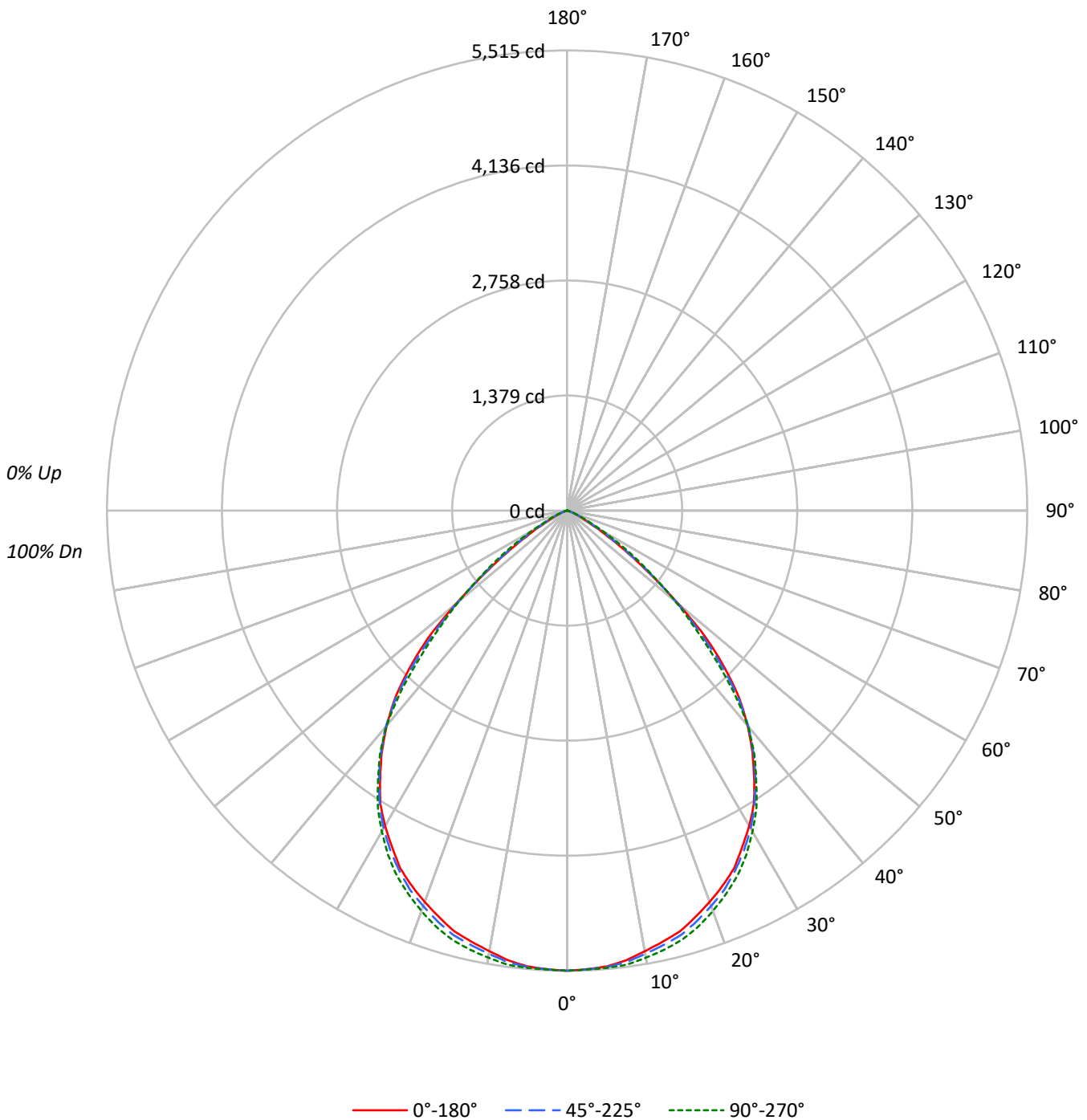
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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						
1	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	92	91						
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	81						
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72						
4	91	81	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64						
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58						
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52						
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47						
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	44	43						
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39						
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36						

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°	521.1	5.4
10°-20°	1482.8	15.2
20°-30°	2190.7	22.5
30°-40°	2447.9	25.2
40°-50°	1976.3	20.3
50°-60°	879.0	9.0
60°-70°	198.0	2.0
70°-80°	30.6	0.3
80°-90°	3.6	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°	4194.6	43.1
0°-40°	6642.5	68.3
0°-60°	9497.8	97.6
0°-90°	9730.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9730.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5515	5515	5515	5515	5515	
5°	5483	5482	5491	5492	5501	519
15°	5222	5225	5268	5307	5324	1469
25°	4732	4732	4762	4801	4828	2169
35°	3907	3905	3931	3935	3951	2435
45°	2677	2657	2607	2514	2502	2024
55°	890	903	943	992	1021	837
65°	146	165	177	192	203	170
75°	20	27	28	27	33	25
85°	2	3	5	12	3	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5515.1	5515.1	5515.1	5515.1	5515.1
2.5°	5501.0	5497.7	5503.2	5499.9	5505.3
5°	5482.6	5481.5	5491.2	5492.3	5501.0
7.5°	5434.8	5435.9	5456.5	5471.7	5489.1
10°	5362.1	5366.4	5393.6	5427.2	5441.3
12.5°	5292.6	5298.1	5332.8	5379.5	5390.3
15°	5222.1	5225.4	5267.7	5306.7	5324.1
17.5°	5107.1	5128.8	5161.3	5205.8	5228.6
20°	4992.0	5007.2	5044.1	5093.0	5106.0
22.5°	4866.1	4882.4	4919.3	4959.5	4973.6
25°	4731.6	4731.6	4762.0	4801.0	4828.2
27.5°	4543.8	4566.6	4588.3	4623.1	4650.2
30°	4364.8	4373.5	4399.5	4427.7	4440.7
32.5°	4166.2	4167.3	4179.2	4210.7	4222.6
35°	3906.8	3904.6	3930.7	3935.0	3951.3
37.5°	3647.4	3658.3	3668.1	3683.3	3684.3
40°	3364.2	3369.6	3380.5	3364.2	3371.8
42.5°	3056.0	3048.4	3027.8	2978.9	2958.3
45°	2677.2	2656.6	2606.7	2514.5	2502.5
47.5°	2259.4	2208.4	2147.7	2079.3	2066.3
50°	1737.4	1741.8	1711.4	1688.6	1690.8
52.5°	1266.5	1281.7	1289.2	1311.0	1322.9
55°	889.9	902.9	943.1	991.9	1021.2
57.5°	576.3	601.2	653.3	708.7	729.3
60°	367.9	384.2	430.8	471.0	498.1
62.5°	240.9	246.3	272.4	309.3	310.4
65°	146.5	165.0	176.9	192.1	202.9
67.5°	95.5	95.5	106.4	120.5	123.7
70°	55.3	56.4	61.9	67.3	70.5
72.5°	30.4	33.6	36.9	42.3	47.7
75°	19.5	27.1	28.2	27.1	32.6
77.5°	13.0	13.0	10.9	18.4	19.5
80°	10.9	7.6	9.8	14.1	15.2
82.5°	0.0	1.1	1.1	2.2	0.0
85°	2.2	3.3	5.4	11.9	3.3
87.5°	0.0	3.3	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)