

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: P247576

Luminaire Tested: **LSR8B100D010 EC8B100827 8LBW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247576
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-62)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100827 8LBW0B
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6742.0 lumens
Efficiency: N/A
Efficacy: 63.4 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.07 / 1.01
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

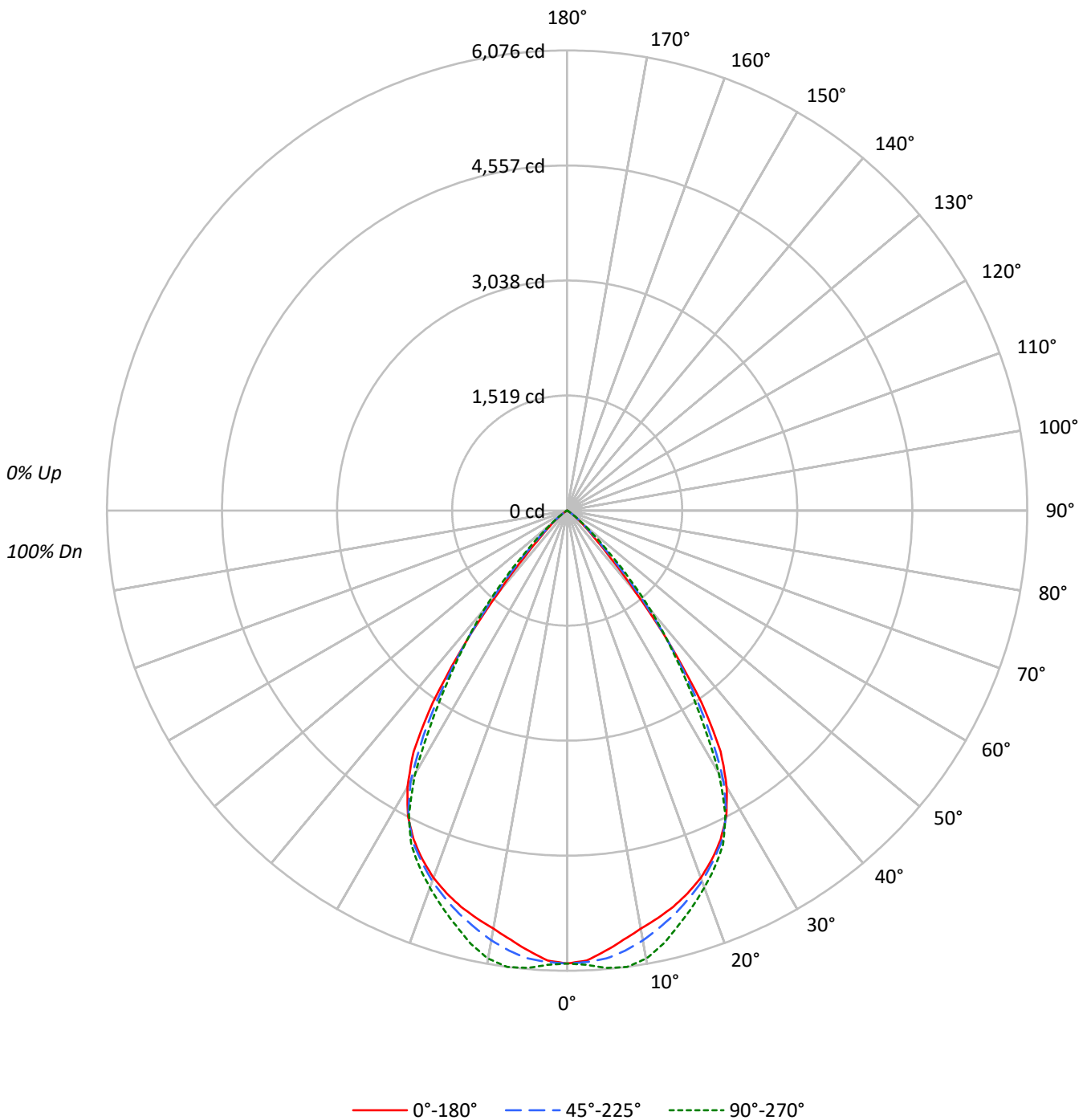
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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			
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93					93			
2	107	102	98	95	105	101	97	94	97	94	91	94	92	90	92	89	88	86					86			
3	102	95	90	86	100	93	89	85	91	87	84	88	85	82	86	83	81	79					79			
4	96	88	82	78	94	87	82	77	85	80	77	83	79	76	81	78	75	73					73			
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68					68			
6	86	77	70	66	84	76	70	65	74	69	65	73	68	65	71	67	64	63					63			
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58					58			
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55	54					54			
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50					50			
10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	52	48	47					47			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	184401	184401	184401
5°	180614	183787	187634
10°	175526	180414	188085
15°	172847	175921	181099
20°	169311	170873	173833
25°	163064	164224	165677
30°	150025	147120	142776
35°	116253	108310	102897
40°	56488	64092	68657
45°	21853	28124	34081
50°	10237	11696	13394
55°	4258	4586	4720
60°	1431	1351	1277
65°	175	270	270
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	562.1	8.3
10°-20°	1555.6	23.1
20°-30°	2191.9	32.5
30°-40°	1773.3	26.3
40°-50°	563.0	8.3
50°-60°	90.0	1.3
60°-70°	6.1	0.1
70°-80°	0.0	0.0
80°-90°	0.0	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°	4309.6	63.9
0°-40°	6082.9	90.2
0°-60°	6735.9	99.9
0°-90°	6742.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6742.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5980	5980	5980	5980	5980	
5°	5835	5862	5937	6024	6062	550
15°	5414	5435	5511	5616	5673	1525
25°	4793	4801	4827	4854	4869	2188
35°	3088	3004	2877	2774	2733	1831
45°	501	541	645	736	782	467
55°	79	80	85	89	88	83
65°	2	4	4	4	4	6
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5980.0	5980.0	5980.0	5980.0	5980.0
2.5°	5945.9	5952.0	5966.6	5994.7	6003.2
5°	5834.9	5861.8	5937.4	6023.9	6061.7
7.5°	5715.5	5750.8	5861.8	6008.1	6076.3
10°	5605.7	5643.5	5761.8	5917.8	6006.8
12.5°	5513.1	5542.3	5638.7	5778.9	5861.8
15°	5414.3	5435.1	5510.6	5615.5	5672.8
17.5°	5296.1	5314.4	5364.3	5446.0	5489.9
20°	5159.5	5164.4	5207.1	5259.5	5297.3
22.5°	4990.1	4994.9	5019.3	5069.3	5094.9
25°	4792.6	4801.1	4826.7	4853.5	4869.4
27.5°	4549.9	4553.6	4541.4	4519.5	4524.3
30°	4213.4	4200.0	4131.8	4037.9	4009.8
32.5°	3772.1	3683.1	3535.6	3403.9	3350.3
35°	3088.2	3004.0	2877.2	2773.6	2733.4
37.5°	2218.9	2225.0	2216.4	2193.3	2198.2
40°	1403.3	1459.3	1592.2	1678.8	1705.6
42.5°	842.4	903.4	1049.7	1166.7	1204.5
45°	501.1	541.3	644.9	736.4	781.5
47.5°	321.9	341.4	392.6	446.2	471.8
50°	213.4	223.1	243.8	268.2	279.2
52.5°	136.5	140.2	150.0	158.5	167.0
55°	79.2	80.5	85.3	89.0	87.8
57.5°	41.5	41.5	41.5	41.5	41.5
60°	23.2	21.9	21.9	21.9	20.7
62.5°	11.0	11.0	11.0	9.8	9.8
65°	2.4	3.7	3.7	3.7	3.7
67.5°	0.0	0.0	0.0	0.0	1.2
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	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)