

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: P247588

Luminaire Tested: **LSR8B100D010 EC8B100840 8LBW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247588
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 EC8B100840 8LBW0B
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7139.0 lumens
Efficiency: N/A
Efficacy: 67.2 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

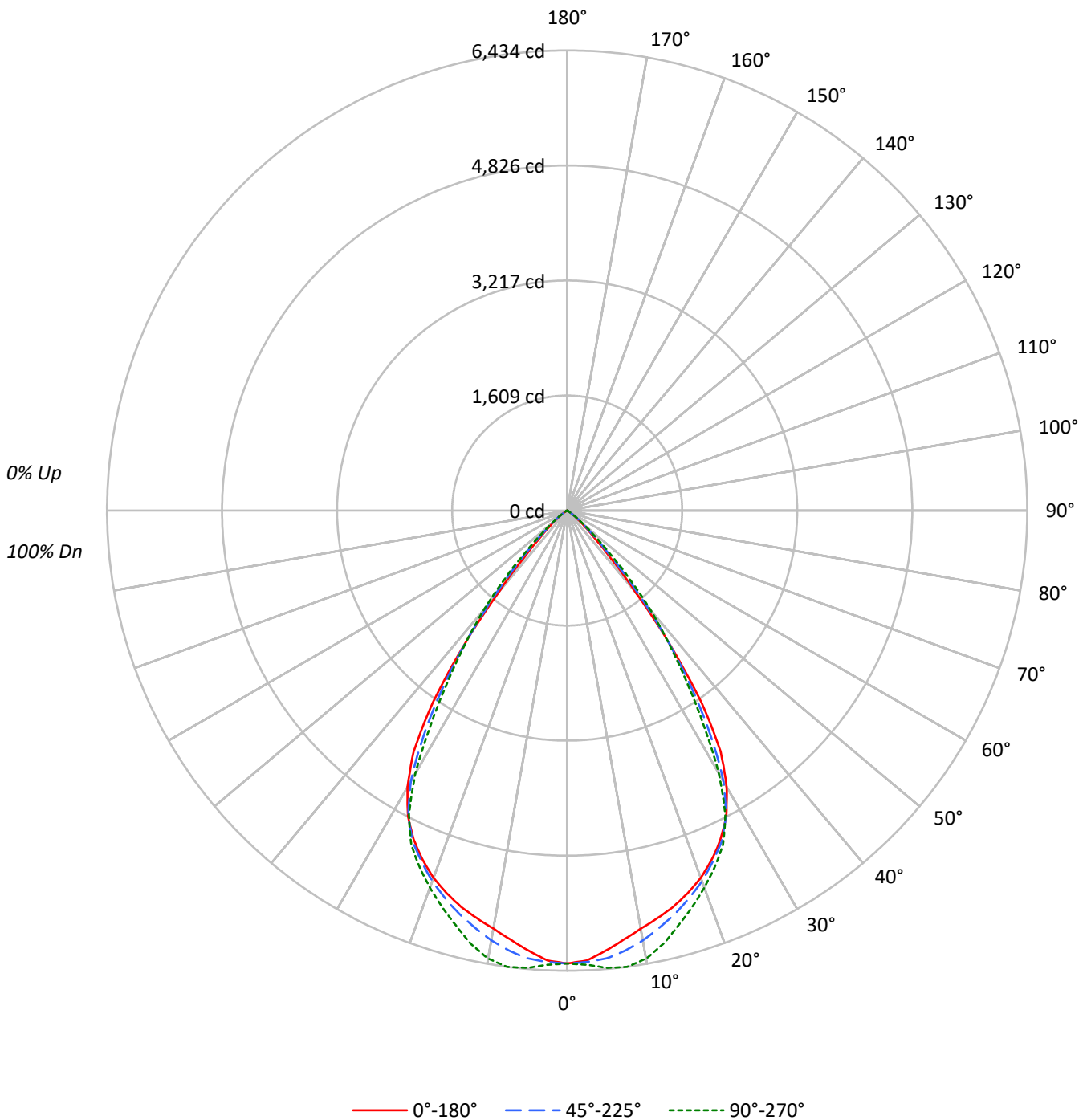
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	195262	195262	195262
5°	191250	194608	198682
10°	185862	191038	199163
15°	183024	186280	191762
20°	179280	180934	184068
25°	172666	173894	175432
30°	158863	155783	151186
35°	123096	114691	108954
40°	59813	67868	72703
45°	23139	29781	36087
50°	10837	12387	14181
55°	4511	4860	4994
60°	1511	1431	1351
65°	190	285	285
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°	595.2	8.3
10°-20°	1647.2	23.1
20°-30°	2321.0	32.5
30°-40°	1877.8	26.3
40°-50°	596.1	8.4
50°-60°	95.3	1.3
60°-70°	6.5	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°	4563.4	63.9
0°-40°	6441.1	90.2
0°-60°	7132.5	99.9
0°-90°	7139.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7139.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6332	6332	6332	6332	6332	
5°	6178	6207	6287	6379	6419	582
15°	5733	5755	5835	5946	6007	1615
25°	5075	5084	5111	5139	5156	2317
35°	3270	3181	3047	2937	2894	1939
45°	531	573	683	780	828	494
55°	84	85	90	94	93	87
65°	3	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°	6332.2	6332.2	6332.2	6332.2	6332.2
2.5°	6296.0	6302.5	6318.0	6347.6	6356.7
5°	6178.5	6206.9	6287.0	6378.6	6418.6
7.5°	6052.0	6089.5	6206.9	6361.8	6434.1
10°	5935.8	5975.8	6101.1	6266.3	6360.6
12.5°	5837.7	5868.7	5970.7	6119.1	6206.9
15°	5733.1	5755.1	5835.1	5946.2	6006.8
17.5°	5607.9	5627.3	5680.2	5766.7	5813.2
20°	5463.3	5468.5	5513.7	5569.2	5609.2
22.5°	5283.9	5289.1	5314.9	5367.8	5394.9
25°	5074.8	5083.8	5110.9	5139.3	5156.1
27.5°	4817.9	4821.7	4808.8	4785.6	4790.7
30°	4461.6	4447.4	4375.1	4275.7	4246.0
32.5°	3994.2	3900.0	3743.8	3604.4	3547.6
35°	3270.0	3180.9	3046.7	2936.9	2894.3
37.5°	2349.5	2356.0	2347.0	2322.4	2327.6
40°	1485.9	1545.3	1686.0	1777.7	1806.1
42.5°	892.1	956.6	1111.5	1235.4	1275.5
45°	530.6	573.2	682.9	779.7	827.5
47.5°	340.8	361.5	415.7	472.5	499.6
50°	225.9	236.2	258.2	284.0	295.6
52.5°	144.6	148.5	158.8	167.8	176.9
55°	83.9	85.2	90.4	94.2	92.9
57.5°	43.9	43.9	43.9	43.9	43.9
60°	24.5	23.2	23.2	23.2	21.9
62.5°	11.6	11.6	11.6	10.3	10.3
65°	2.6	3.9	3.9	3.9	3.9
67.5°	0.0	0.0	0.0	0.0	1.3
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)