

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: P247252

Luminaire Tested: **LSR8B100D010 EC8B100840 8LBW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247252
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-59)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100840 8LBW0WMH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10651.0 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.14 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

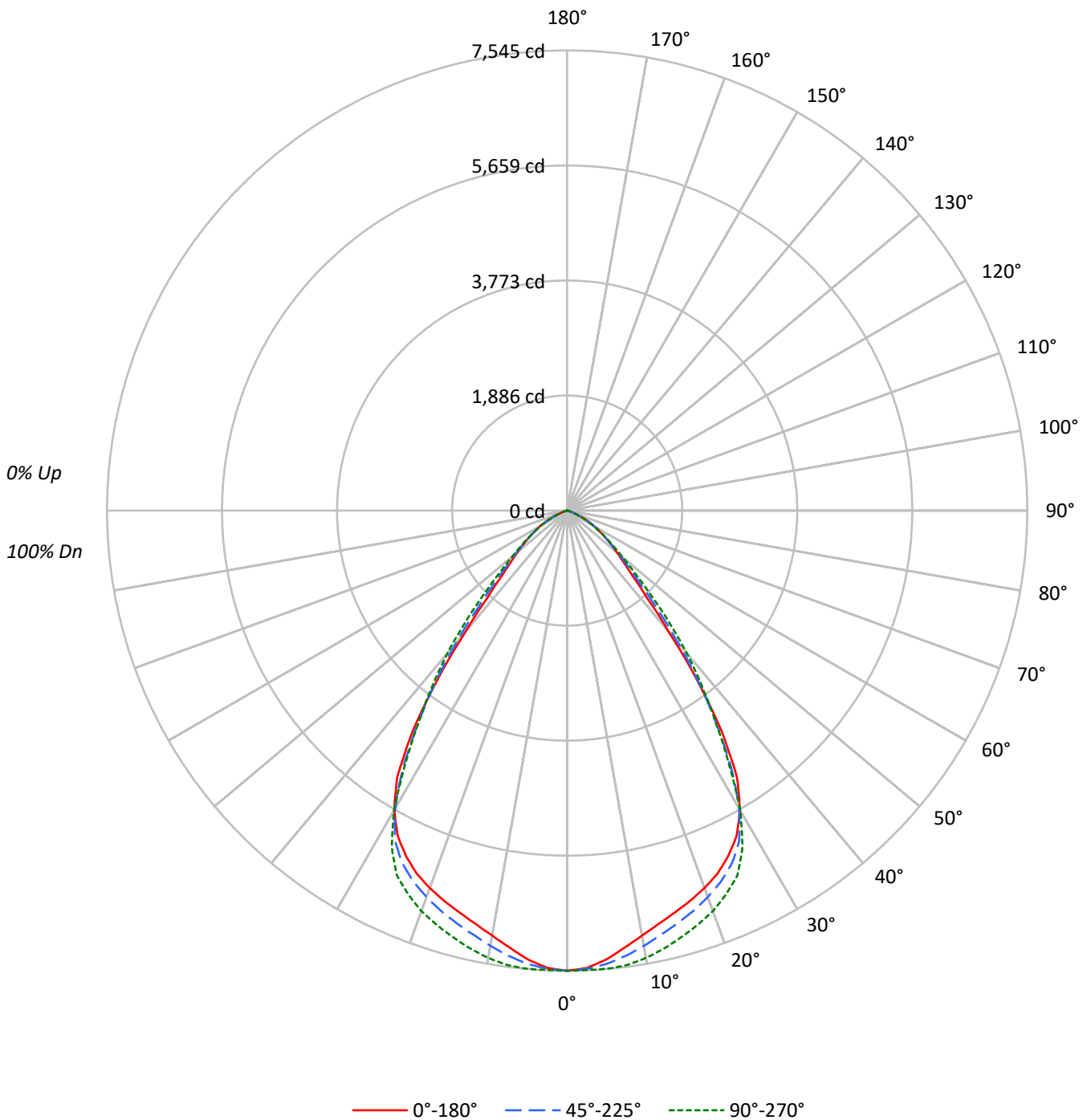
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83					83			
3	99	91	85	81	97	90	84	80	87	83	79	85	81	78	82	79	76	75					75			
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	68					68			
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61					61			
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56					56			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51					51			
8	72	61	54	50	71	61	54	49	59	54	49	58	53	49	57	52	49	47					47			
9	68	57	50	46	67	57	50	46	56	50	45	55	49	45	54	49	45	44					44			
10	65	53	47	42	63	53	47	42	52	46	42	51	46	42	50	45	42	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	232657	232657	232657
5°	228670	230868	233428
10°	221533	226909	233215
15°	217786	223555	231178
20°	216069	221280	229287
25°	212651	217353	224644
30°	201765	200936	202225
35°	166312	160432	160044
40°	104201	113504	122911
45°	66042	73416	82652
50°	50851	52832	56546
55°	40257	40117	41574
60°	31373	30731	30577
65°	21101	20255	19686
70°	9665	8845	8385
75°	4611	4158	3848
80°	2291	2060	2060
85°	1380	1380	920



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	705.6	6.6
10°-20°	1981.3	18.6
20°-30°	2918.0	27.4
30°-40°	2654.0	24.9
40°-50°	1373.9	12.9
50°-60°	688.3	6.5
60°-70°	280.3	2.6
70°-80°	44.7	0.4
80°-90°	4.8	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°	5604.9	52.6
0°-40°	8259.0	77.5
0°-60°	10321.2	96.9
0°-90°	10651.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10651.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7545	7545	7545	7545	7545	
5°	7387	7407	7458	7515	7541	695
15°	6822	6868	7003	7164	7242	1928
25°	6250	6293	6388	6534	6602	2861
35°	4418	4390	4262	4226	4252	2664
45°	1514	1567	1684	1814	1895	1247
55°	749	746	746	760	773	680
65°	289	288	278	274	270	292
75°	39	37	35	32	32	49
85°	4	4	4	3	3	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7544.9	7544.9	7544.9	7544.9	7544.9
2.5°	7504.9	7508.8	7519.1	7530.7	7539.8
5°	7387.4	7406.8	7458.4	7515.2	7541.1
7.5°	7227.3	7269.9	7364.2	7470.1	7516.5
10°	7075.0	7124.1	7246.7	7388.7	7448.1
12.5°	6940.7	6988.5	7121.5	7280.3	7353.9
15°	6822.0	6868.4	7002.7	7164.1	7241.5
17.5°	6709.6	6752.2	6880.0	7041.4	7120.2
20°	6584.4	6621.8	6743.2	6899.4	6987.2
22.5°	6442.4	6470.8	6584.4	6732.9	6810.3
25°	6250.0	6292.6	6388.2	6534.0	6602.5
27.5°	6015.0	6042.2	6108.0	6197.1	6225.5
30°	5666.5	5665.2	5643.2	5643.2	5679.4
32.5°	5182.3	5120.3	5015.8	4952.5	4947.3
35°	4418.0	4389.6	4261.8	4225.6	4251.5
37.5°	3485.9	3505.2	3537.5	3589.1	3635.6
40°	2588.6	2637.6	2819.7	2982.3	3053.4
42.5°	1931.4	1994.7	2180.6	2358.8	2445.3
45°	1514.4	1567.3	1683.5	1813.9	1895.3
47.5°	1252.3	1279.4	1341.4	1429.2	1470.5
50°	1060.0	1072.9	1101.3	1146.5	1178.7
52.5°	899.9	894.7	910.2	939.9	951.5
55°	748.8	746.2	746.2	760.4	773.3
57.5°	621.0	617.1	609.4	615.8	619.7
60°	508.7	504.8	498.3	497.1	495.8
62.5°	409.3	402.8	389.9	387.3	387.3
65°	289.2	287.9	277.6	273.7	269.8
67.5°	179.5	174.3	165.3	157.5	156.2
70°	107.2	105.9	98.1	93.0	93.0
72.5°	64.6	62.0	58.1	55.5	54.2
75°	38.7	37.4	34.9	32.3	32.3
77.5°	23.2	21.9	20.7	19.4	19.4
80°	12.9	12.9	11.6	11.6	11.6
82.5°	7.7	7.7	6.5	6.5	6.5
85°	3.9	3.9	3.9	2.6	2.6
87.5°	1.3	1.3	1.3	1.3	1.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)