

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: P247170

Luminaire Tested: **LSR8B80D010 EC8B80935 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247170
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: LSR8B80D010 EC8B80935 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7192.0 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

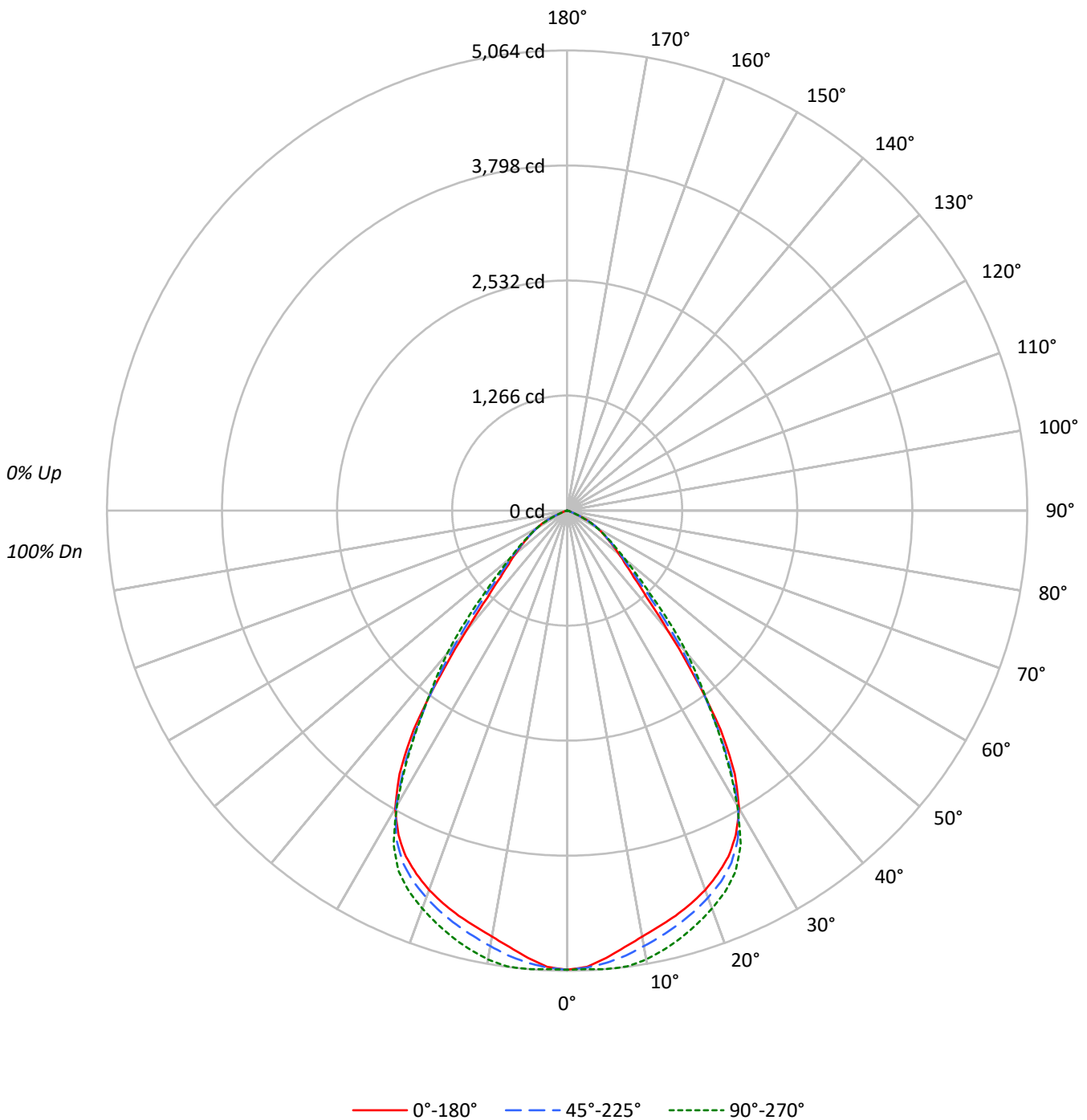
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	155807	155807	155807
5°	152944	154606	156745
10°	149026	152417	157036
15°	147336	150576	155260
20°	145798	148735	152988
25°	142928	145511	149165
30°	134757	134152	133329
35°	110847	107030	106420
40°	69410	76583	82798
45°	45297	50504	55968
50°	35716	37433	39889
55°	29112	29617	30531
60°	23824	23664	23559
65°	15432	14994	14184
70°	5301	4923	4535
75°	1823	1728	1620
80°	764	604	604
85°	318	318	318



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	473.3	6.6
10°-20°	1333.6	18.5
20°-30°	1950.3	27.1
30°-40°	1767.2	24.6
40°-50°	939.7	13.1
50°-60°	501.5	7.0
60°-70°	204.5	2.8
70°-80°	20.6	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°	3757.2	52.2
0°-40°	5524.4	76.8
0°-60°	6965.6	96.9
0°-90°	7192.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7192.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5053	5053	5053	5053	5053	
5°	4941	4954	4995	5040	5064	466
15°	4615	4642	4717	4814	4863	1302
25°	4201	4219	4277	4350	4384	1920
35°	2945	2904	2843	2822	2827	1770
45°	1039	1069	1158	1250	1283	850
55°	542	541	551	559	568	491
65°	212	211	206	194	194	211
75°	15	15	14	14	14	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°	5052.7	5052.7	5052.7	5052.7	5052.7
2.5°	5025.4	5024.6	5033.9	5045.0	5051.0
5°	4941.0	4953.8	4994.7	5039.9	5063.8
7.5°	4845.5	4869.4	4940.1	5017.7	5059.5
10°	4759.4	4790.1	4867.7	4969.1	5015.2
12.5°	4685.2	4715.0	4793.5	4897.5	4947.8
15°	4615.2	4641.7	4716.7	4813.9	4863.4
17.5°	4534.2	4559.8	4632.3	4724.4	4767.0
20°	4443.0	4464.3	4532.5	4618.6	4662.1
22.5°	4329.6	4352.6	4421.7	4501.0	4541.9
25°	4200.8	4218.7	4276.7	4350.0	4384.1
27.5°	4021.7	4037.9	4072.0	4111.2	4136.8
30°	3784.6	3780.4	3767.6	3755.6	3744.5
32.5°	3435.0	3394.1	3331.8	3292.6	3294.3
35°	2944.6	2903.7	2843.2	2821.8	2827.0
37.5°	2300.8	2331.5	2356.2	2397.2	2416.8
40°	1724.3	1777.2	1902.5	2011.7	2056.9
42.5°	1296.2	1348.2	1479.6	1594.7	1656.9
45°	1038.7	1069.4	1158.1	1250.2	1283.4
47.5°	869.8	883.5	934.6	993.5	1022.5
50°	744.5	753.0	780.3	812.7	831.5
52.5°	637.9	641.3	654.9	673.7	685.6
55°	541.5	540.7	550.9	558.6	567.9
57.5°	457.9	457.1	457.1	459.6	465.6
60°	386.3	383.7	383.7	380.3	382.0
62.5°	314.7	312.1	306.1	301.9	300.2
65°	211.5	210.6	205.5	193.6	194.4
67.5°	110.0	109.2	104.0	100.6	98.9
70°	58.8	57.1	54.6	52.0	50.3
72.5°	29.8	29.0	28.1	26.4	26.4
75°	15.3	15.3	14.5	13.6	13.6
77.5°	7.7	7.7	6.8	6.8	6.8
80°	4.3	4.3	3.4	3.4	3.4
82.5°	1.7	1.7	1.7	1.7	1.7
85°	0.9	0.9	0.9	0.9	0.9
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)