

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: P247442

Luminaire Tested: **LSR8B80D010 EC8B80840 8LBS0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247442
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-85)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80840 8LBS0WH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9271.0 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.24
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

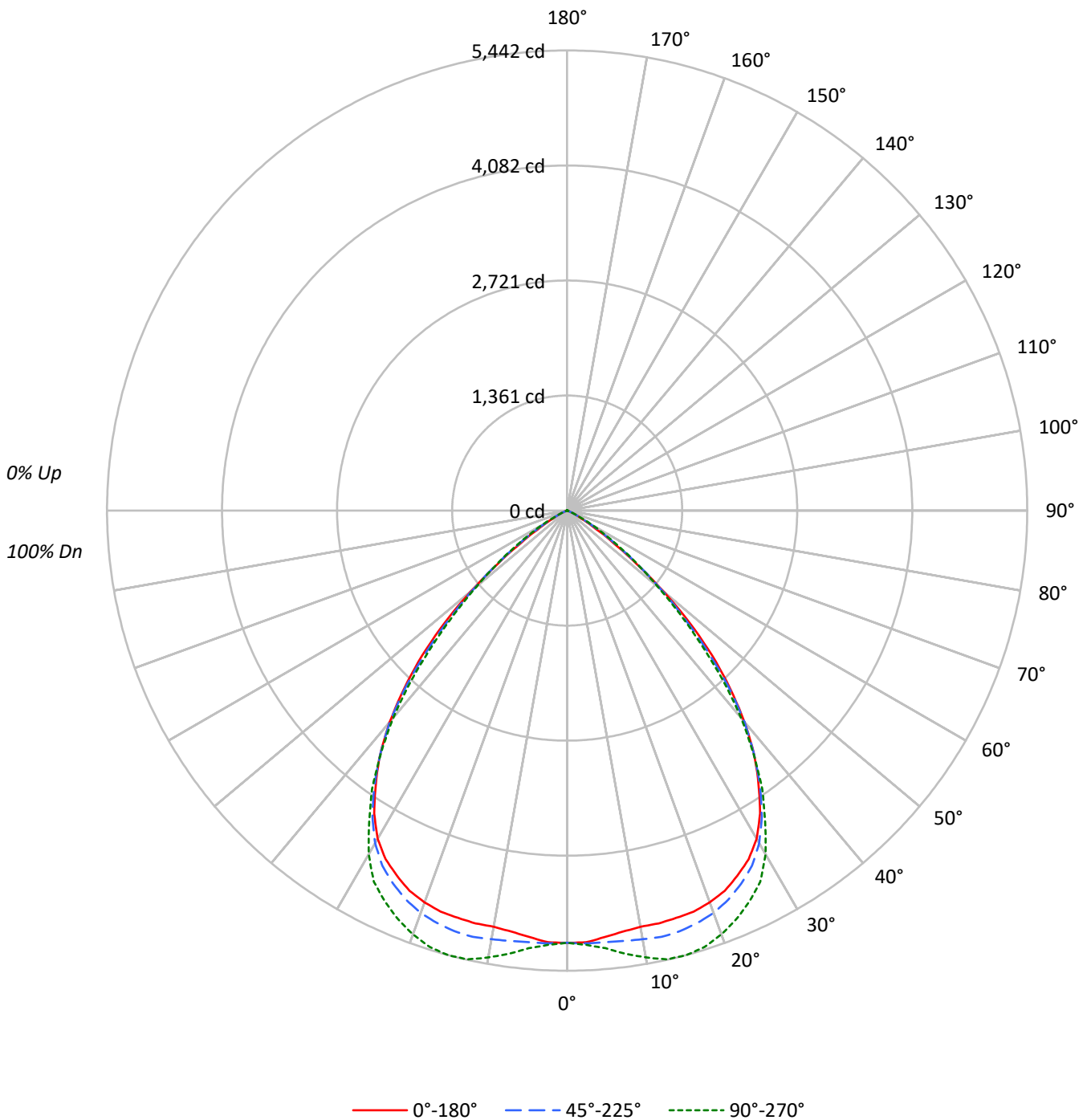
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P247442

CATALOG NUMBER: LSR8B80D010 EC8B80840 8LBS0WH

Luminous Intensity Polar Plot





TEST NUMBER: P247442

CATALOG NUMBER: LSR8B80D010 EC8B80840 8LBS0WH

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	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82					82			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73					73			
4	92	83	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66					66			
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59					59			
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54					54			
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49					49			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44					44			
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	157617	157617	157617
5°	156745	158621	160834
10°	156472	161169	168014
15°	159215	164416	173741
20°	161799	166137	175004
25°	162081	165663	173506
30°	159611	161697	167074
35°	148548	149519	151390
40°	131292	131131	128772
45°	105757	101814	97872
50°	71014	69153	66821
55°	36052	39149	41552
60°	14764	18076	21080
65°	5509	5874	6888
70°	361	361	270
75°	715	1180	1537
80°	178	0	0
85°	708	0	708



TEST NUMBER: P247442

CATALOG NUMBER: LSR8B80D010 EC8B80840 8LBS0WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.8	5.3
10°-20°	1462.8	15.8
20°-30°	2250.9	24.3
30°-40°	2465.4	26.6
40°-50°	1792.6	19.3
50°-60°	689.6	7.4
60°-70°	108.0	1.2
70°-80°	7.8	0.1
80°-90°	3.1	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°	4204.6	45.4
0°-40°	6669.9	71.9
0°-60°	9152.1	98.7
0°-90°	9271.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9271.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5111	5111	5111	5111	5111	
5°	5064	5090	5124	5173	5196	481
15°	4987	5026	5150	5341	5442	1411
25°	4764	4792	4869	5013	5100	2191
35°	3946	3946	3972	3997	4022	2450
45°	2425	2400	2335	2275	2244	1844
55°	671	688	728	752	773	655
65°	76	78	80	91	94	92
75°	6	13	10	13	13	8
85°	2	0	0	0	2	5
90°	0	0	0	0	0	



TEST NUMBER: P247442

CATALOG NUMBER: LSR8B80D010 EC8B80840 8LBS0WH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5111.4	5111.4	5111.4	5111.4	5111.4
2.5°	5110.5	5118.4	5123.4	5134.3	5139.3
5°	5063.8	5089.6	5124.4	5173.0	5195.9
7.5°	5023.0	5058.8	5133.3	5238.6	5285.3
10°	4997.2	5035.9	5147.2	5290.3	5365.8
12.5°	5000.2	5042.9	5163.1	5335.0	5436.3
15°	4987.3	5026.0	5150.2	5340.9	5442.3
17.5°	4972.4	5004.2	5114.4	5301.2	5410.5
20°	4930.6	4957.5	5062.8	5231.7	5333.0
22.5°	4868.0	4892.9	4980.3	5137.3	5230.7
25°	4763.7	4792.5	4869.0	5013.1	5099.5
27.5°	4647.5	4664.4	4734.9	4866.1	4948.5
30°	4482.6	4488.5	4541.2	4642.5	4692.2
32.5°	4247.1	4246.1	4285.9	4336.5	4355.4
35°	3946.1	3946.1	3971.9	3996.8	4021.6
37.5°	3633.2	3629.2	3632.2	3638.1	3617.3
40°	3261.6	3253.6	3257.6	3221.9	3199.0
42.5°	2854.3	2861.2	2821.5	2757.9	2734.1
45°	2425.1	2400.2	2334.7	2275.1	2244.3
47.5°	1969.1	1930.3	1867.7	1806.1	1801.2
50°	1480.3	1482.3	1441.5	1406.8	1392.9
52.5°	1027.3	1038.2	1059.0	1063.0	1068.0
55°	670.6	688.5	728.2	752.1	772.9
57.5°	410.3	443.1	476.9	521.6	525.6
60°	239.4	255.3	293.1	326.9	341.8
62.5°	135.1	150.0	158.0	177.8	182.8
65°	75.5	78.5	80.5	91.4	94.4
67.5°	45.7	47.7	49.7	48.7	50.7
70°	4.0	8.9	4.0	5.0	3.0
72.5°	16.9	10.9	11.9	8.9	6.0
75°	6.0	12.9	9.9	12.9	12.9
77.5°	4.0	3.0	5.0	6.0	5.0
80°	1.0	0.0	0.0	0.0	0.0
82.5°	8.9	7.9	5.0	7.9	3.0
85°	2.0	0.0	0.0	0.0	2.0
87.5°	6.0	3.0	3.0	7.0	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)