

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: P247705

Luminaire Tested: **LSR8B120D010 EC8B120940 8LBW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247705
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-63)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120940 8LBW0MW
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11357.0 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.09 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

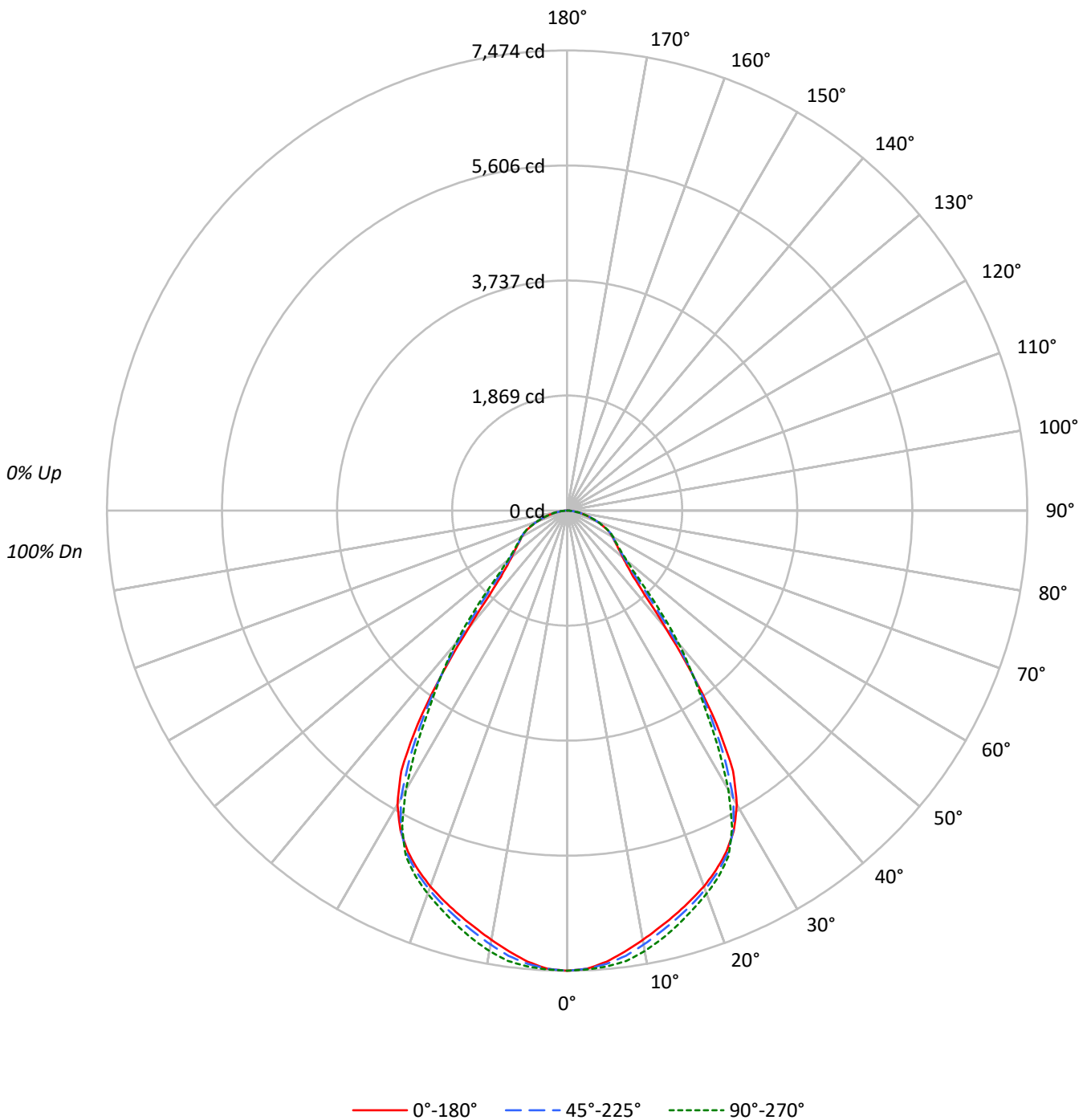
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P247705

CATALOG NUMBER: LSR8B120D010 EC8B120940 8LBW0MW

Luminous Intensity Polar Plot





TEST NUMBER: P247705

CATALOG NUMBER: LSR8B120D010 EC8B120940 8LBW0MW

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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89					89			
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78					78			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63					63			
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	57					57			
6	79	67	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51					51			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47					47			
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43					43			
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40					40			
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	230461	230461	230461
5°	227646	228742	230042
10°	221692	224156	227444
15°	216851	219156	222297
20°	213132	214940	217310
25°	208125	209418	210803
30°	196221	192016	186366
35°	159291	152131	146300
40°	99612	108118	113347
45°	66373	72614	78793
50°	56589	58287	60302
55°	52907	53611	54385
60°	52434	52761	53248
65°	51127	51696	52082
70°	46369	46730	47081
75°	40485	40961	41116
80°	34486	34486	35409
85°	27845	27845	27845



TEST NUMBER: P247705

CATALOG NUMBER: LSR8B120D010 EC8B120940 8LBW0MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	698.3	6.1
10°-20°	1937.6	17.1
20°-30°	2801.1	24.7
30°-40°	2506.8	22.1
40°-50°	1356.6	11.9
50°-60°	904.2	8.0
60°-70°	692.4	6.1
70°-80°	367.0	3.2
80°-90°	92.8	0.8
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°	5437.1	47.9
0°-40°	7943.9	69.9
0°-60°	10204.7	89.9
0°-90°	11357.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11357.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7474	7474	7474	7474	7474	
5°	7354	7358	7390	7419	7432	693
15°	6793	6806	6865	6932	6963	1916
25°	6117	6131	6155	6184	6196	2799
35°	4232	4188	4041	3924	3886	2561
45°	1522	1567	1665	1769	1807	1252
55°	984	988	997	1008	1012	890
65°	701	703	708	714	714	687
75°	340	340	344	345	345	365
85°	79	79	79	80	79	93
90°	0	0	0	0	0	



TEST NUMBER: P247705

CATALOG NUMBER: LSR8B120D010 EC8B120940 8LBW0MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7473.7	7473.7	7473.7	7473.7	7473.7
2.5°	7448.8	7446.1	7447.5	7455.3	7459.3
5°	7354.3	7358.2	7389.7	7418.6	7431.7
7.5°	7221.8	7238.8	7292.6	7349.1	7377.9
10°	7080.1	7097.1	7158.8	7238.8	7263.8
12.5°	6934.4	6955.4	7010.5	7091.9	7122.1
15°	6792.7	6805.8	6864.9	6931.8	6963.3
17.5°	6647.1	6660.2	6714.0	6766.5	6791.4
20°	6494.9	6509.3	6550.0	6594.6	6622.2
22.5°	6320.4	6334.8	6368.9	6408.3	6433.2
25°	6117.0	6131.4	6155.0	6183.9	6195.7
27.5°	5859.8	5869.0	5846.7	5823.1	5802.1
30°	5510.8	5481.9	5392.7	5278.6	5234.0
32.5°	5014.8	4921.7	4749.8	4610.7	4559.5
35°	4231.5	4188.2	4041.3	3924.5	3886.4
37.5°	3318.3	3347.2	3336.7	3328.8	3336.7
40°	2474.6	2541.5	2685.9	2784.3	2815.8
42.5°	1873.7	1938.0	2100.7	2237.1	2284.4
45°	1522.0	1566.6	1665.1	1768.7	1806.8
47.5°	1313.4	1338.3	1388.2	1443.3	1461.7
50°	1179.6	1190.1	1215.0	1246.5	1257.0
52.5°	1073.3	1078.5	1093.0	1110.0	1112.7
55°	984.1	988.0	997.2	1007.7	1011.6
57.5°	909.3	913.2	915.8	922.4	925.0
60°	850.2	850.2	855.5	860.7	863.4
62.5°	785.9	785.9	791.2	796.4	796.4
65°	700.7	703.3	708.5	713.8	713.8
67.5°	607.5	608.8	612.7	618.0	616.7
70°	514.3	514.3	518.3	520.9	522.2
72.5°	425.1	423.8	430.4	431.7	427.7
75°	339.8	339.8	343.8	345.1	345.1
77.5°	265.0	263.7	263.7	265.0	266.4
80°	194.2	195.5	194.2	196.8	199.4
82.5°	135.1	133.8	133.8	133.8	132.5
85°	78.7	78.7	78.7	80.0	78.7
87.5°	31.5	31.5	30.2	30.2	28.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)