

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: P248132

Luminaire Tested: **LSR8B150D010 EC8B150835 8LBS0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248132
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-94)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B150D010 EC8B150835 8LBS0WH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18070.0 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

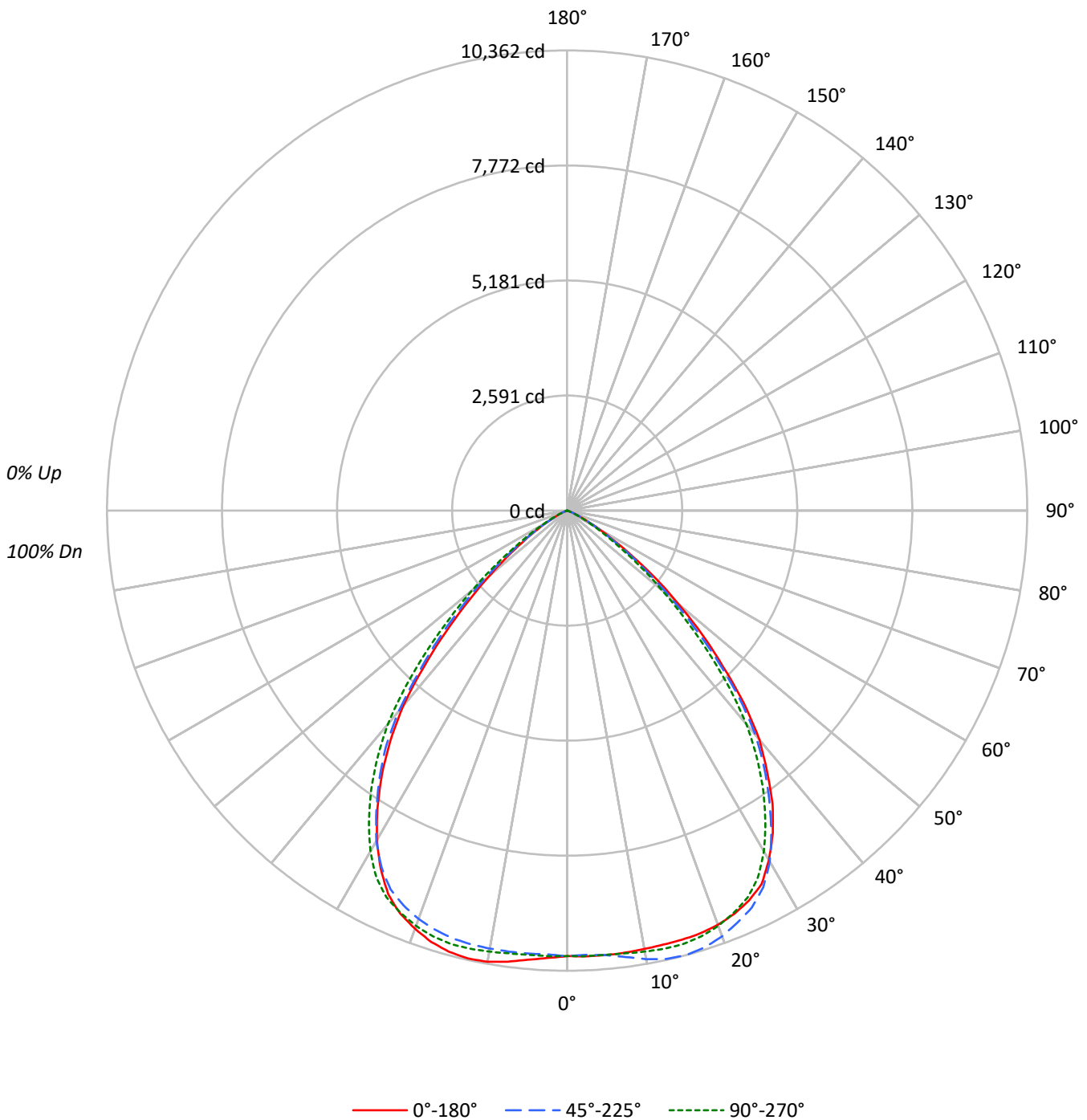
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82					82			
3	98	90	84	79	96	89	83	79	86	81	78	84	80	76	81	78	75	73					73			
4	92	82	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	72	67	62	71	66	62	69	65	61	59					59			
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53					53			
7	75	64	56	51	73	63	56	51	62	55	51	60	55	50	59	54	50	48					48			
8	70	59	52	47	69	58	51	46	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°	90°	180°
0°	309344	309344	309344
5°	310990	310773	314209
10°	313865	315744	322977
15°	319362	322555	328237
20°	325718	326572	328803
25°	329687	327203	324345
30°	323480	315575	304964
35°	303480	289966	274117
40°	271106	252751	231416
45°	216210	194623	168676
50°	156626	133695	108898
55°	97147	79029	62471
60°	49955	39285	31391
65°	21306	15979	12258
70°	6762	3336	2164
75°	1787	1072	1072
80°	1421	888	710
85°	1061	354	354



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	961.9	5.3
10°-20°	2862.9	15.8
20°-30°	4400.5	24.4
30°-40°	4756.9	26.3
40°-50°	3423.0	18.9
50°-60°	1381.3	7.6
60°-70°	265.6	1.5
70°-80°	15.8	0.1
80°-90°	2.2	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°	8225.3	45.5
0°-40°	12982.1	71.8
0°-60°	17786.4	98.4
0°-90°	18070.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18070.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10032	10032	10032	10032	10032	
5°	10047	10050	10040	10011	10151	958
15°	10004	10362	10104	9971	10282	2831
25°	9690	9856	9617	9410	9533	4445
35°	8062	7934	7703	7370	7282	4992
45°	4958	4811	4463	4097	3868	3830
55°	1807	1671	1470	1270	1162	1684
65°	292	298	219	171	168	342
75°	15	12	9	9	9	25
85°	3	2	1	1	1	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	10031.8	10031.8	10031.8	10031.8	10031.8	10031.8	10031.8	10031.8	10031.8
2.5°	10046.8	10032.8	10012.8	10011.8	10043.8	10025.8	10003.8	10026.8	10083.8
5°	10046.8	10048.8	10049.8	10040.8	10039.8	10009.8	10010.8	10072.8	10150.8
7.5°	10039.8	10078.8	10139.8	10125.8	10055.8	9989.8	10016.8	10141.8	10245.8
10°	10023.8	10114.8	10254.8	10233.8	10083.8	9971.8	10014.8	10188.8	10314.8
12.5°	10009.8	10134.8	10341.8	10316.8	10106.8	9959.8	10002.8	10194.8	10330.8
15°	10003.8	10138.8	10361.8	10330.8	10103.8	9935.8	9970.8	10150.8	10281.8
17.5°	9981.8	10107.8	10311.8	10273.8	10051.8	9879.8	9894.8	10058.8	10182.8
20°	9925.8	10033.8	10200.8	10148.8	9951.8	9778.8	9783.8	9907.8	10019.8
22.5°	9830.8	9915.8	10036.8	9986.8	9802.8	9645.8	9624.8	9728.8	9822.8
25°	9689.8	9758.8	9855.8	9801.8	9616.8	9456.8	9409.8	9475.8	9532.8
27.5°	9482.8	9506.8	9561.8	9478.8	9307.8	9150.8	9052.8	9062.8	9092.8
30°	9084.8	9123.8	9128.8	9033.8	8862.8	8680.8	8590.8	8540.8	8564.8
32.5°	8616.8	8605.8	8555.8	8440.8	8306.8	8161.8	7991.8	7934.8	7947.8
35°	8061.8	8035.8	7933.8	7823.8	7702.8	7524.8	7369.8	7285.8	7281.8
37.5°	7385.8	7350.8	7283.8	7131.8	7020.8	6870.8	6701.9	6608.9	6538.9
40°	6734.9	6679.9	6600.9	6418.9	6278.9	6069.9	5896.9	5767.9	5748.9
42.5°	5894.9	5867.9	5754.9	5571.9	5396.9	5149.9	4948.9	4840.9	4784.9
45°	4957.9	4957.9	4810.9	4649.9	4462.9	4278.9	4096.9	3935.9	3867.9
47.5°	4118.9	4014.9	3875.9	3703.9	3566.9	3436.9	3243.9	3045.9	2999.9
50°	3264.9	3198.9	3034.9	2870.9	2786.9	2662.9	2510.9	2318.9	2270.0
52.5°	2522.9	2418.9	2277.0	2155.0	2076.0	1979.0	1814.0	1683.0	1658.0
55°	1807.0	1754.0	1671.0	1571.0	1470.0	1368.0	1270.0	1195.0	1162.0
57.5°	1238.0	1220.0	1151.0	1092.0	994.0	904.0	814.0	790.0	792.0
60°	810.0	809.0	775.0	722.0	637.0	555.0	513.0	501.0	509.0
62.5°	490.0	499.0	490.0	459.0	394.0	331.0	301.0	307.0	302.0
65°	292.0	301.0	298.0	258.0	219.0	192.0	171.0	163.0	168.0
67.5°	170.0	165.0	152.0	133.0	109.0	90.0	76.0	69.0	70.0
70°	75.0	71.0	64.0	49.0	37.0	30.0	25.0	23.0	24.0
72.5°	28.0	27.0	23.0	19.0	16.0	13.0	12.0	12.0	12.0
75°	15.0	14.0	12.0	10.0	9.0	9.0	9.0	9.0	9.0
77.5°	11.0	10.0	9.0	8.0	7.0	6.0	6.0	6.0	6.0
80°	8.0	7.0	6.0	5.0	5.0	4.0	4.0	4.0	4.0
82.5°	5.0	5.0	4.0	3.0	3.0	2.0	2.0	2.0	2.0
85°	3.0	3.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)