

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: P247193

Luminaire Tested: **LSR8B120D010 EC8B120827 8LBS0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247193  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-83)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B120D010 EC8B120827 8LBS0H  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12656.0 lumens  
Efficiency: N/A  
Efficacy: 107.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

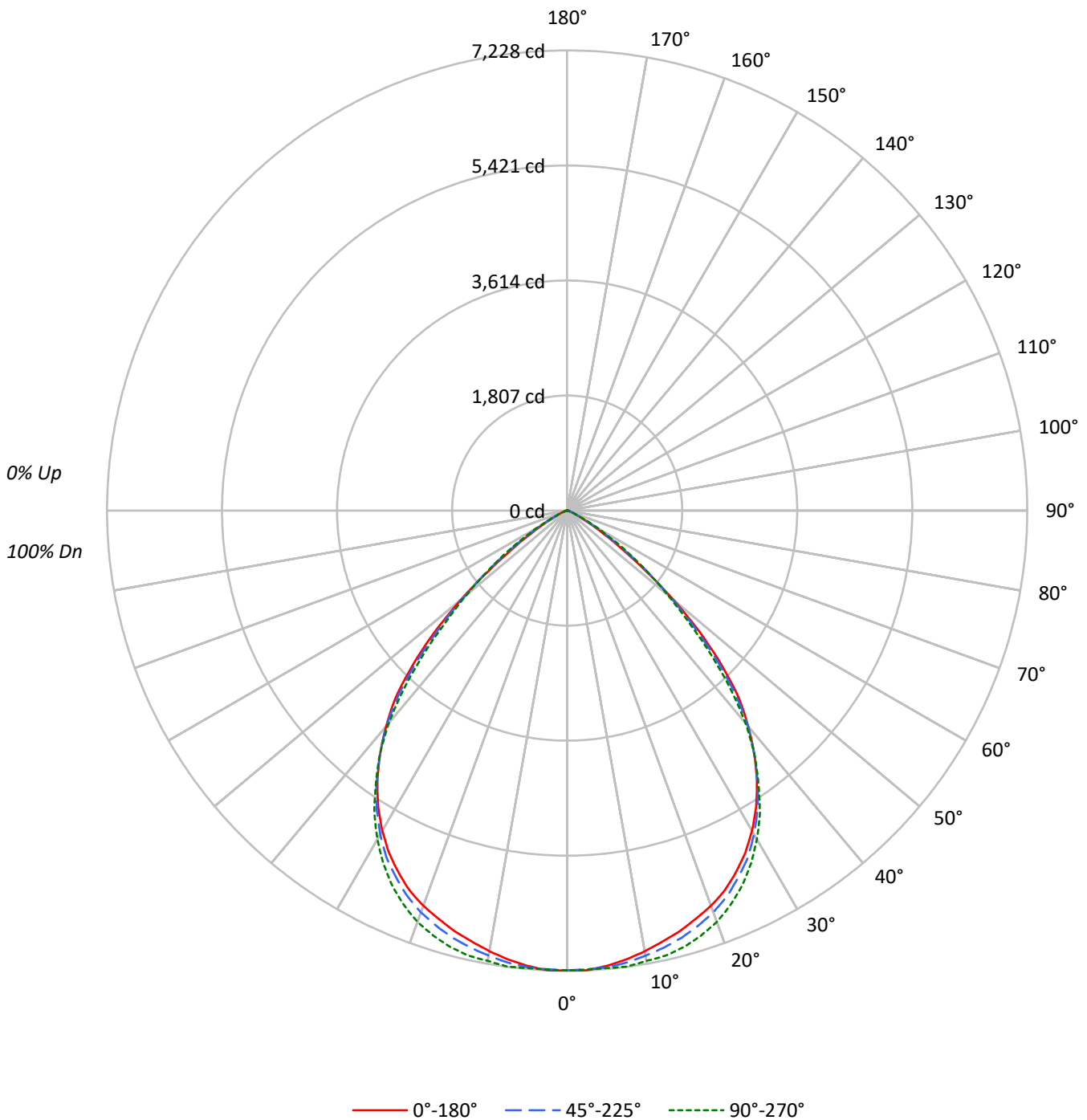
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	98	99	97	95	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48					48			
8	70	58	51	46	68	57	51	46	56	50	45	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40					40			
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36					36			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	222715	222715	222715
5°	222155	222795	223266
10°	220048	222256	224855
15°	218307	221748	226514
20°	216781	220365	225671
25°	213389	216349	221146
30°	206779	209043	212241
35°	195565	196450	197176
40°	178136	177967	175576
45°	149771	145249	138982
50°	104024	101702	98987
55°	55649	61519	65159
60°	26932	30602	34518
65°	11798	11901	12404
70°	6356	5860	5734
75°	5600	5099	3622
80°	249	977	0
85°	495	495	2441



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	684.2	5.4
10°-20°	1962.1	15.5
20°-30°	2927.6	23.1
30°-40°	3242.3	25.6
40°-50°	2528.6	20.0
50°-60°	1059.8	8.4
60°-70°	212.3	1.7
70°-80°	33.8	0.3
80°-90°	5.3	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°	5573.9	44.0
0°-40°	8816.2	69.7
0°-60°	12404.7	98.0
0°-90°	12656.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12656.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7222	7222	7222	7222	7222	
5°	7177	7182	7198	7217	7213	680
15°	6838	6869	6946	7048	7095	1929
25°	6272	6297	6359	6457	6500	2882
35°	5195	5187	5219	5243	5238	3229
45°	3434	3419	3331	3228	3187	2598
55°	1035	1075	1144	1190	1212	1008
65°	162	162	163	176	170	195
75°	47	43	43	33	30	38
85°	1	3	1	0	7	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7222.5	7222.5	7222.5	7222.5	7222.5
2.5°	7228.0	7214.2	7211.5	7219.7	7214.2
5°	7176.9	7182.4	7197.6	7217.0	7212.8
7.5°	7110.6	7120.2	7161.7	7211.5	7223.9
10°	7027.6	7048.4	7098.1	7154.8	7181.1
12.5°	6930.9	6958.5	7030.4	7112.0	7160.3
15°	6838.3	6868.7	6946.1	7048.4	7095.4
17.5°	6722.2	6762.3	6838.3	6948.9	6997.2
20°	6606.1	6642.1	6715.3	6823.1	6877.0
22.5°	6462.4	6488.7	6557.8	6649.0	6704.3
25°	6271.7	6296.6	6358.7	6456.9	6499.7
27.5°	6058.8	6087.9	6144.5	6212.2	6250.9
30°	5807.3	5830.8	5870.9	5931.7	5960.7
32.5°	5524.0	5525.4	5565.5	5611.1	5637.3
35°	5195.1	5186.8	5218.6	5243.4	5237.9
37.5°	4831.6	4833.0	4830.2	4833.0	4838.5
40°	4425.3	4405.9	4421.1	4386.6	4361.7
42.5°	3994.1	3974.7	3915.3	3839.3	3797.8
45°	3434.4	3419.2	3330.7	3228.4	3187.0
47.5°	2819.4	2772.4	2700.5	2613.4	2573.3
50°	2168.4	2162.9	2120.0	2099.3	2063.4
52.5°	1550.6	1550.6	1603.2	1594.9	1593.5
55°	1035.1	1075.2	1144.3	1189.9	1212.0
57.5°	674.4	711.7	769.8	818.2	840.3
60°	436.7	454.7	496.2	533.5	559.7
62.5°	270.9	286.1	308.2	331.7	341.4
65°	161.7	161.7	163.1	175.5	170.0
67.5°	109.2	113.3	107.8	107.8	121.6
70°	70.5	66.3	65.0	63.6	63.6
72.5°	45.6	38.7	41.5	44.2	38.7
75°	47.0	42.8	42.8	33.2	30.4
77.5°	16.6	18.0	12.4	9.7	8.3
80°	1.4	5.5	5.5	1.4	0.0
82.5°	16.6	15.2	12.4	19.3	12.4
85°	1.4	2.8	1.4	0.0	6.9
87.5°	0.0	0.0	0.0	1.4	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)