

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: CORELITE

Report Number: P256978

Luminaire Tested: **HGL-S-BF-40L930-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256978
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1708-204-8)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: HGL-S-BF-40L930-UNV-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS
Light Source: (336) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5011.2 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.25 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 8' x H: 0.01')
CIE Type: Direct

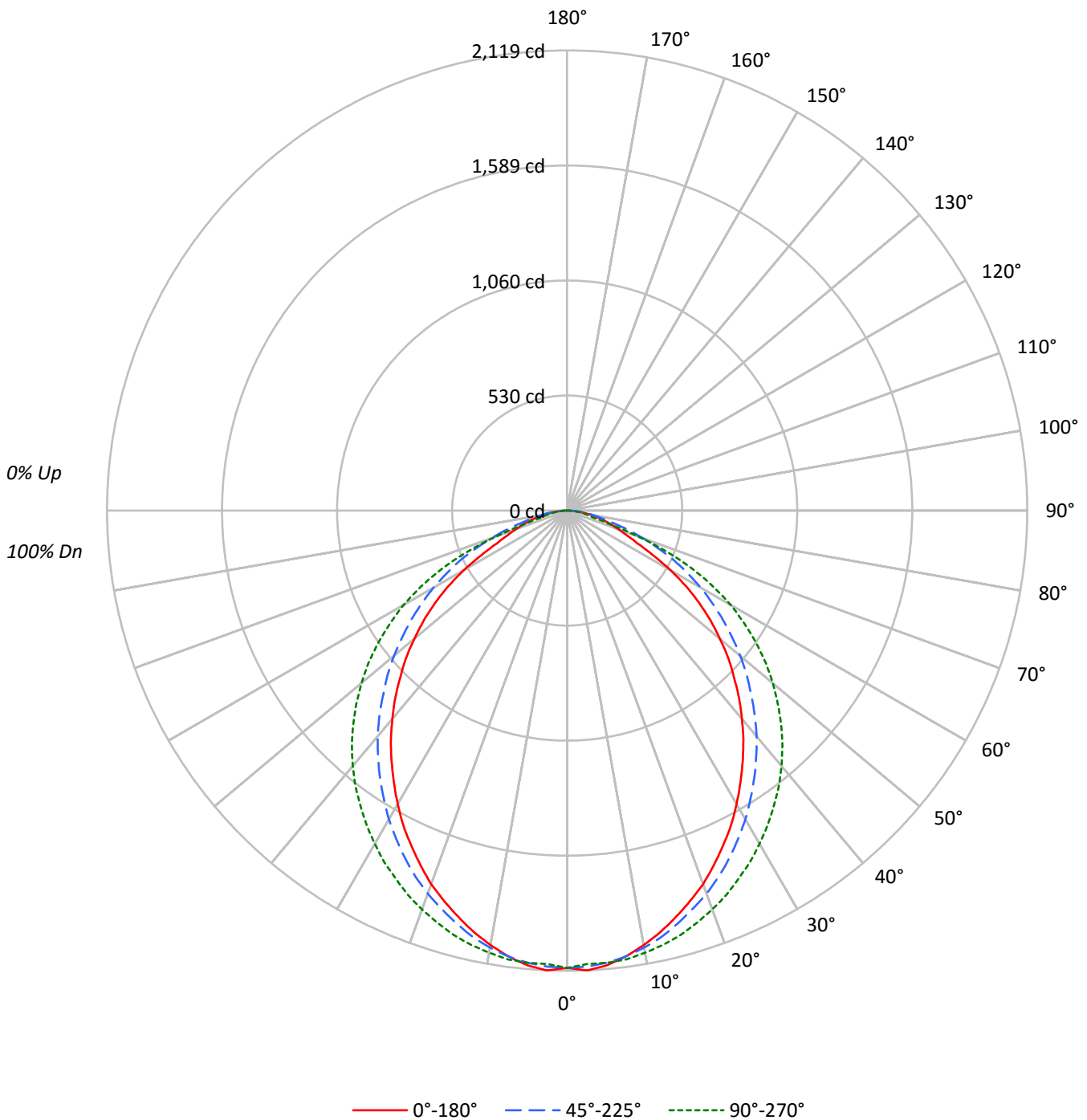
Input Watts (W): 58
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86					86			
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73					73			
3	92	82	75	68	90	81	74	68	78	72	67	75	70	66	73	68	64	62					62			
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	56	50	61	54	50	59	53	49	47					47			
6	72	59	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43	41					41			
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37					37			
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33					33			
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30					30			
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27					27			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12364	12364	12364
5°	12387	12285	12273
10°	12112	12117	12229
15°	11770	11862	12151
20°	11431	11592	12021
25°	11008	11275	11867
30°	10572	10932	11718
35°	10091	10533	11542
40°	9585	10128	11351
45°	9013	9637	11087
50°	8373	9156	10734
55°	7596	8571	10230
60°	6458	7907	9493
65°	4948	7068	8137
70°	4284	5885	5265
75°	3945	4369	2462
80°	3518	3504	2103
85°	2962	2976	1569



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.9	3.9
10°-20°	555.0	11.1
20°-30°	814.1	16.2
30°-40°	944.1	18.8
40°-50°	934.7	18.7
50°-60°	788.7	15.7
60°-70°	511.2	10.2
70°-80°	206.8	4.1
80°-90°	57.4	1.1
90°-100°	1.3	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°	1567.0	31.3
0°-40°	2511.1	50.1
0°-60°	4234.6	84.5
0°-90°	5009.9	100.0
90°-120°	1.3	0.0
90°-150°	1.3	0.0
90°-180°	1.0	0.0
0°-180°	5011.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2106	2106	2106	2106	2106	
5°	2102	2081	2090	2088	2090	198
15°	1937	1927	1968	2003	2022	546
25°	1700	1700	1766	1821	1869	783
35°	1409	1419	1502	1582	1660	881
45°	1087	1110	1198	1298	1394	839
55°	743	782	875	978	1062	661
65°	357	413	543	609	640	371
75°	175	182	215	177	126	186
85°	45	52	60	48	35	49
90°	0	8	14	10	0	3
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2105.9	2105.9	2105.9	2105.9	2105.9
2.5°	2119.4	2096.2	2102.0	2098.1	2090.3
5°	2102.0	2080.6	2090.3	2088.4	2090.3
7.5°	2070.9	2053.5	2070.9	2076.7	2084.5
10°	2032.1	2018.5	2043.8	2057.3	2067.0
12.5°	1987.5	1975.8	2010.8	2032.1	2047.6
15°	1937.0	1927.3	1968.1	2003.0	2022.4
17.5°	1884.6	1876.8	1923.4	1968.1	1989.4
20°	1830.3	1822.5	1876.8	1921.5	1954.5
22.5°	1766.2	1762.3	1824.4	1871.0	1915.7
25°	1700.2	1700.2	1766.2	1820.6	1869.1
27.5°	1634.2	1634.2	1704.1	1764.3	1824.4
30°	1560.5	1566.3	1642.0	1708.0	1772.0
32.5°	1484.8	1494.5	1572.1	1645.9	1717.7
35°	1409.1	1418.8	1502.2	1581.8	1659.5
37.5°	1333.4	1347.0	1430.4	1513.9	1601.2
40°	1251.9	1269.3	1356.7	1444.0	1535.2
42.5°	1172.3	1191.7	1279.0	1372.2	1467.3
45°	1086.9	1110.2	1197.5	1298.5	1393.6
47.5°	1007.3	1030.6	1121.8	1220.8	1315.9
50°	918.0	947.2	1040.3	1143.2	1236.3
52.5°	832.6	865.6	956.9	1061.7	1152.9
55°	743.4	782.2	875.3	978.2	1061.7
57.5°	648.3	694.8	791.9	890.9	966.6
60°	551.2	607.5	710.4	801.6	869.5
62.5°	446.4	512.4	625.0	710.4	758.9
65°	357.1	413.4	543.4	609.4	640.5
67.5°	297.0	330.0	454.2	502.7	502.7
70°	250.4	267.8	372.7	384.3	343.5
72.5°	211.6	221.3	291.1	262.0	196.0
75°	174.7	182.4	215.4	176.6	126.2
77.5°	139.7	145.6	163.0	133.9	99.0
80°	104.8	112.6	122.3	102.9	77.6
82.5°	73.8	79.6	91.2	75.7	56.3
85°	44.6	52.4	60.2	48.5	34.9
87.5°	19.4	25.2	33.0	25.2	15.5
90°	0.0	7.8	13.6	9.7	0.0
92.5°	0.0	0.0	1.9	1.9	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)