

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: LUMARK

Report Number: P381063

Luminaire Tested: **PRV-PA2B-740-U-5WQ**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P381063
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-1)
Test Lab: INNOVATIONS CENTER
Issue Date: 1/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-PA2B-740-U-5WQ
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 970mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20332 lumens
Efficiency: N/A
Efficacy: 134.6 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

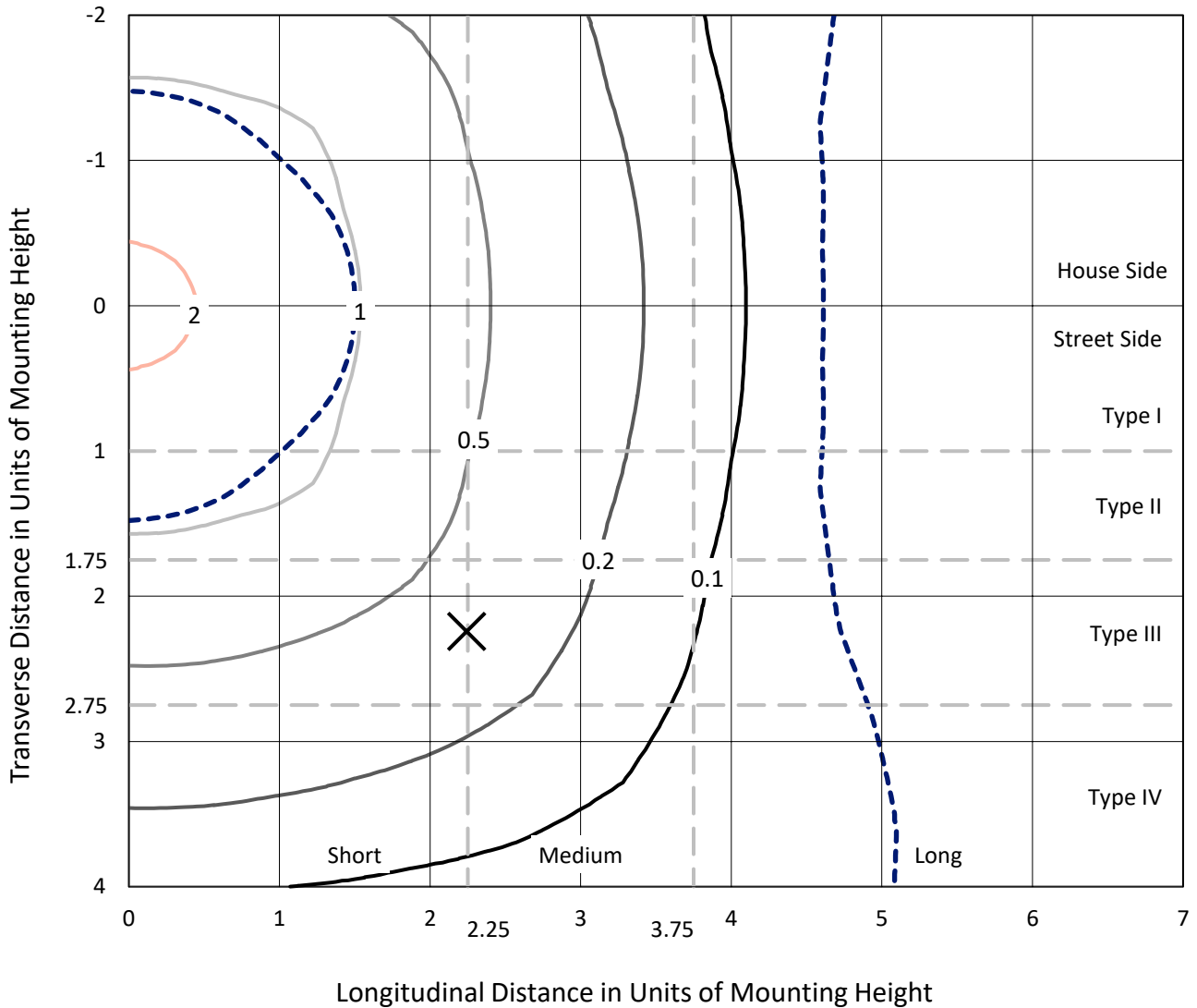
Input Watts (W): 151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P381063
 CATALOG NUMBER: PRV-PA2B-740-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

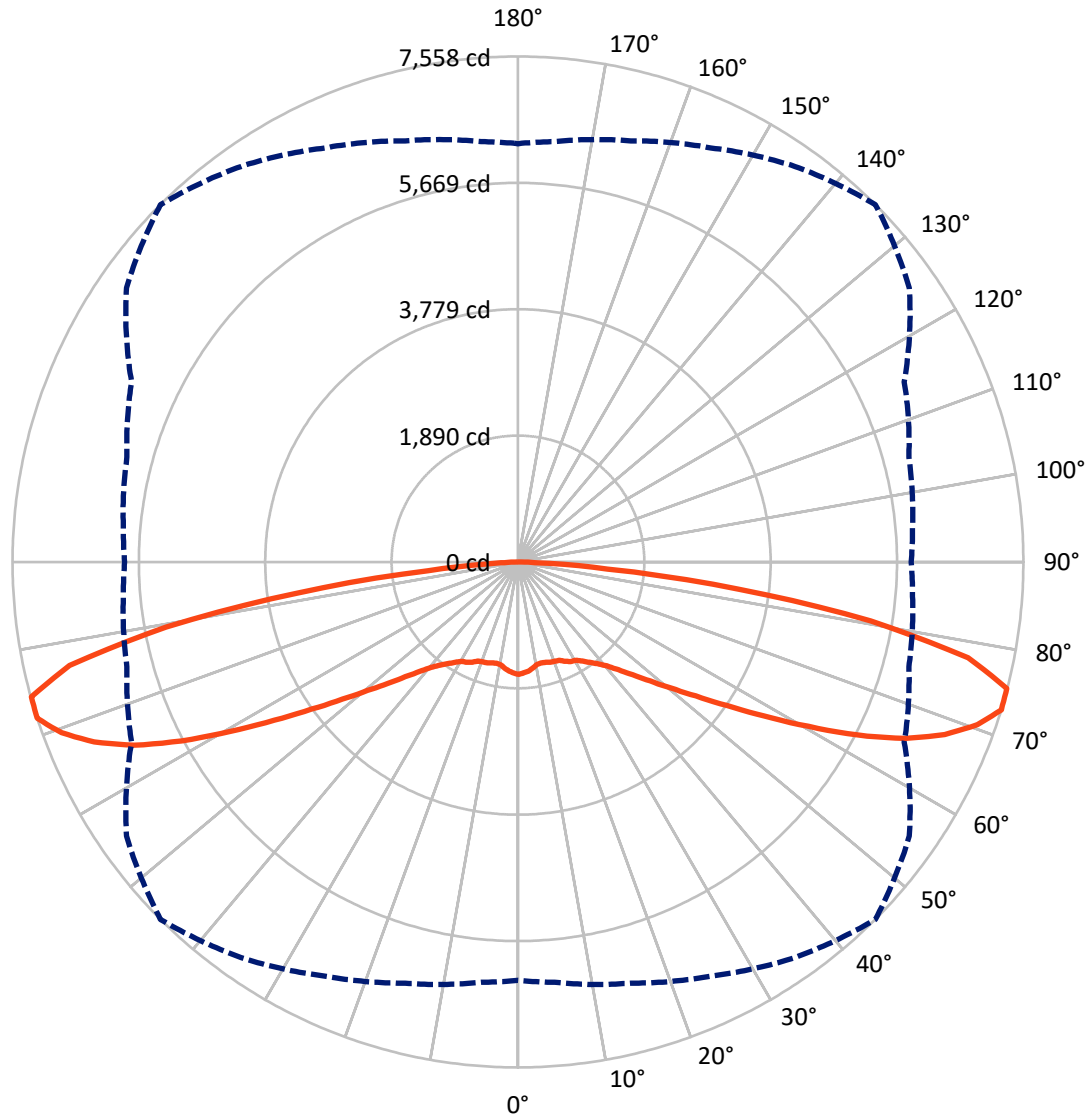
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - N/A

REPORT NUMBER: P381063
CATALOG NUMBER: PRV-PA2B-740-U-5WQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P381063

CATALOG NUMBER: PRV-PA2B-740-U-5WQ

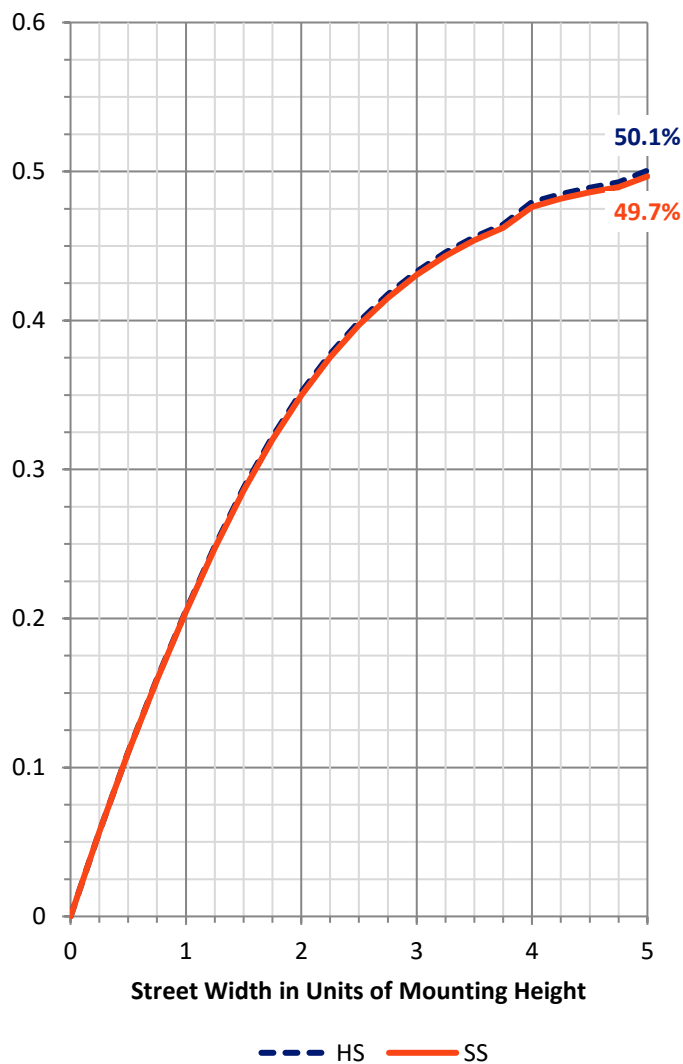
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10166.0	0.0	10166.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10166.0	0.0	10166.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20332.0	0.0	20332.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.3	0.8
10°-20°	447.8	2.2
20°-30°	760.9	3.7
30°-40°	1160.6	5.7
40°-50°	1911.1	9.4
50°-60°	3337.4	16.4
60°-70°	5595.2	27.5
70°-80°	5988.0	29.5
80°-90°	976.6	4.8
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°-90°	20332.0	100.0
0°-180°	20332.0	100.0

Coefficient of Utilization



REPORT NUMBER: P381063

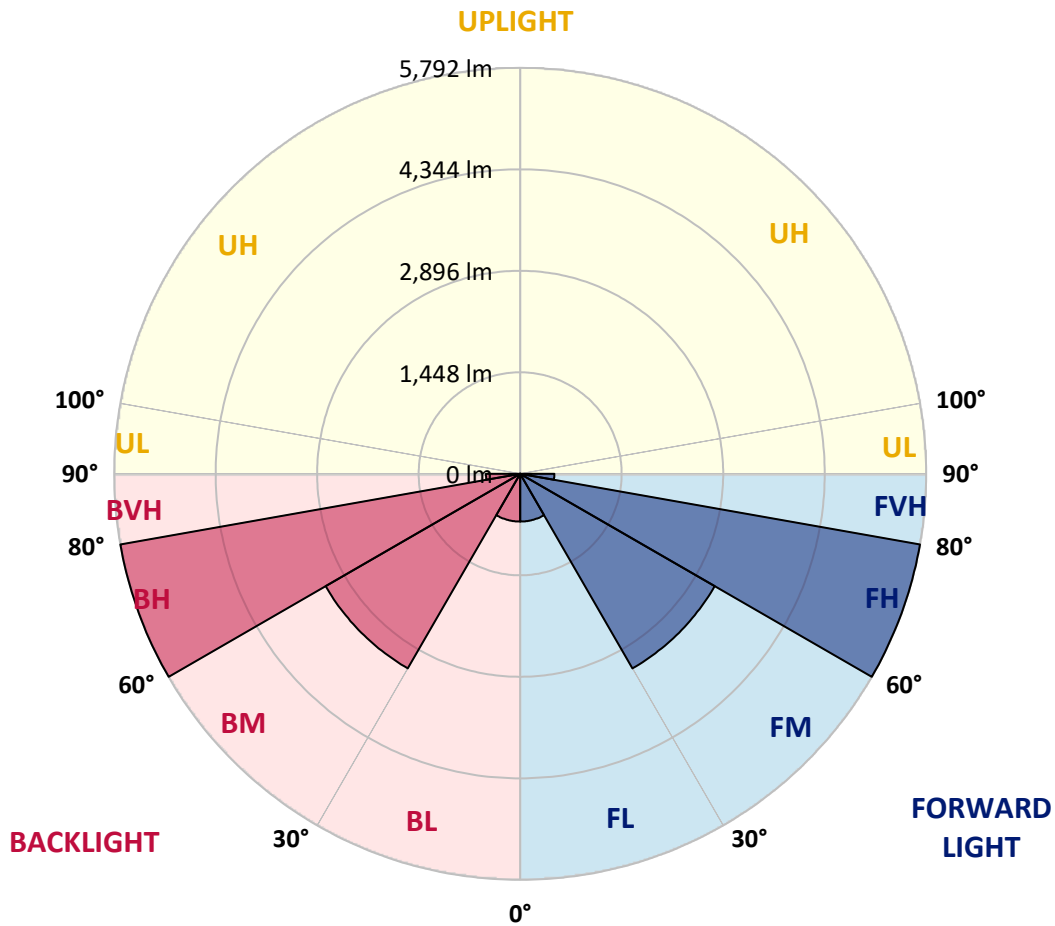
CATALOG NUMBER: PRV-PA2B-740-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	681.5	3.4			
FM (30°-60°)	3204.6	15.8			
FH (60°-80°)	5791.6	28.5			G3/7500
FVH (80°-90°)	488.3	2.4			G3/500
BL (0°-30°)	681.5	3.4	B2/1000		
BM (30°-60°)	3204.6	15.8	B3/5000		
BH (60°-80°)	5791.6	28.5	B5		G3/7500
BVH (80°-90°)	488.3	2.4			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1682.5	1682.5	1682.5	1682.5	1682.5	1682.5	1682.5	1682.5	1682.5	1682.5	1682.5
2.5°	1672.1	1672.1	1672.1	1669.5	1664.3	1661.7	1656.5	1659.1	1659.1	1659.1	1659.1
5°	1651.3	1651.3	1648.7	1646.1	1641.0	1638.4	1633.2	1638.4	1638.4	1638.4	1638.4
7.5°	1612.4	1615.0	1615.0	1612.4	1604.6	1602.0	1594.2	1596.8	1596.8	1599.4	1596.8
10°	1591.6	1591.6	1589.0	1576.0	1563.1	1557.9	1555.3	1563.1	1570.8	1578.6	1578.6
12.5°	1591.6	1591.6	1586.4	1565.7	1547.5	1547.5	1547.5	1557.9	1573.4	1589.0	1591.6
15°	1599.4	1599.4	1589.0	1565.7	1555.3	1557.9	1557.9	1568.3	1586.4	1607.2	1609.8
17.5°	1604.6	1604.6	1591.6	1568.3	1568.3	1576.0	1570.8	1578.6	1596.8	1620.2	1622.8
20°	1612.4	1612.4	1594.2	1576.0	1576.0	1583.8	1583.8	1591.6	1607.2	1630.6	1633.2
22.5°	1628.0	1625.4	1607.2	1591.6	1591.6	1596.8	1602.0	1612.4	1625.4	1646.1	1651.3
25°	1646.1	1646.1	1630.6	1628.0	1633.2	1646.1	1643.5	1641.0	1646.1	1664.3	1672.1
27.5°	1656.5	1656.5	1646.1	1653.9	1674.7	1685.1	1672.1	1661.7	1661.7	1679.9	1682.5
30°	1690.3	1687.7	1677.3	1682.5	1700.7	1705.9	1698.1	1685.1	1692.9	1713.7	1716.2
32.5°	1747.4	1747.4	1731.8	1731.8	1744.8	1765.6	1739.6	1731.8	1742.2	1765.6	1768.2
35°	1835.7	1835.7	1814.9	1804.5	1814.9	1843.5	1804.5	1801.9	1820.1	1846.1	1848.7
37.5°	1947.3	1947.3	1934.4	1908.4	1911.0	1929.2	1895.4	1892.8	1926.6	1955.1	1955.1
40°	2087.5	2095.3	2082.3	2051.2	2040.8	2043.4	2017.4	2020.0	2059.0	2092.7	2092.7
42.5°	2261.5	2266.7	2245.9	2222.6	2209.6	2201.8	2175.8	2181.0	2227.7	2271.9	2271.9
45°	2471.8	2474.4	2453.6	2425.1	2409.5	2404.3	2378.3	2391.3	2443.3	2490.0	2487.4
47.5°	2708.1	2710.7	2689.9	2661.4	2651.0	2658.8	2632.8	2632.8	2679.5	2718.5	2713.3
50°	2975.5	2980.7	2957.3	2944.4	2936.6	2957.3	2926.2	2897.6	2928.8	2967.7	2962.5
52.5°	3271.5	3284.5	3268.9	3274.1	3302.7	3328.6	3276.7	3214.4	3230.0	3255.9	3248.2
55°	3629.8	3645.4	3650.6	3668.8	3744.1	3788.2	3702.5	3598.7	3590.9	3593.5	3580.5
57.5°	4032.3	4042.7	4076.4	4118.0	4273.7	4343.9	4208.8	4029.7	3972.6	3938.8	3931.0
60°	4437.3	4455.5	4538.6	4624.3	4863.1	4990.4	4782.6	4481.5	4359.4	4297.1	4284.1
62.5°	4845.0	4881.3	5016.3	5161.7	5509.7	5699.2	5379.8	4943.6	4767.1	4689.2	4668.4
65°	5317.5	5361.7	5525.2	5709.6	6096.5	6363.9	5977.0	5421.4	5231.8	5128.0	5102.0
67.5°	5870.6	5917.3	6049.7	6254.8	6620.9	6883.2	6540.4	5909.5	5662.8	5530.4	5509.7
70°	6324.9	6366.5	6509.3	6717.0	6989.6	7288.2	6961.1	6299.0	6075.7	5982.2	5969.2
72.5°	6254.8	6309.4	6519.7	6831.2	7220.7	7558.2	7145.4	6374.3	6052.3	5922.5	5880.9
75°	5462.9	5522.6	5771.9	6335.3	7046.7	7550.5	6878.0	5873.2	5494.1	5385.0	5364.3
77.5°	3616.8	3674.0	4094.6	4982.6	6153.6	6880.6	6070.5	4920.3	4310.1	4047.9	4032.3
80°	1461.8	1534.5	1936.9	2879.5	4362.0	5348.7	4502.2	3149.5	2123.9	1713.7	1630.6
82.5°	340.1	405.0	589.4	1061.9	2232.9	3331.2	2427.7	1176.2	682.9	485.5	436.2
85°	142.8	145.4	251.9	345.3	698.4	1345.0	794.5	428.4	347.9	254.5	249.3
87.5°	54.5	57.1	122.0	145.4	223.3	254.5	270.0	220.7	205.1	127.2	122.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)