



Picasso Lighting

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MUS-XR-4-D3-30-80-FW-W.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TESTLAB] Photopia 2020.0.0
[ISSUE DATE] 4/18/2024
[TEST DATE] Thu Apr 19 11:20:58 2024
[TEST] IES-P00362
[MANUFAC] Picasso Lighting Industries, LLC
[LUMCAT] MUS-xR-4-D3-30-80-FW-W
[LUMINAIRE] MUSE - 4' Downlight - White Housing, Frosted White Lens (Downlight)
[LAMP] LED (3000K 80+ CRI)
[OTHER]
[OTHER] This test was performed using absolute photometry.
[OTHER]
[OTHER] Indoor Photometric Report
[OTHER] Distribution: Direct
[OTHER] Symmetry: Quadrilateral
[OTHER] Photometric Type: C
[OTHER]

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1414
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	12.56
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.04 ft
Luminous Width (90-270)	0.33 ft
Luminous Height	0.33 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3625	2161	1826
55	3347	1679	1349
65	2878	1132	851
75	2110	571	393
85	1230	183	110

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	531.10	531.10	531.10	531.10	531.10
10	514.24	516.56	516.00	514.00	515.28
20	487.77	488.94	489.22	489.97	488.18
30	444.63	445.06	445.58	439.23	437.05
40	384.11	384.06	377.53	369.11	365.33
50	311.05	309.76	298.32	287.13	281.87
60	226.54	221.71	206.84	193.56	188.99
70	132.16	124.94	109.87	99.05	94.35
80	46.77	41.37	32.87	28.11	26.34
90	5.41	7.00	6.03	3.78	3.46
100	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	192.29	N.A.	13.60
0-30	407.92	N.A.	28.90
0-40	665.18	N.A.	47.10
0-60	1152.98	N.A.	81.60
0-80	1388.92	N.A.	98.30
0-90	1410.76	N.A.	99.80
10-90	1360.82	N.A.	96.30
20-40	472.88	N.A.	33.50
20-50	733.98	N.A.	51.90
40-70	646.25	N.A.	45.70
60-80	235.94	N.A.	16.70
70-80	77.49	N.A.	5.50
80-90	21.84	N.A.	1.50
90-110	2.90	N.A.	0.20
90-120	2.90	N.A.	0.20
90-130	2.90	N.A.	0.20
90-150	2.90	N.A.	0.20
90-180	2.90	N.A.	0.20
110-180	0.00	N.A.	0.00
0-180	1413.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	49.94
10-20	142.35
20-30	215.63
30-40	257.26
40-50	261.09
50-60	226.71
60-70	158.45
70-80	77.49
80-90	21.84
90-100	2.90
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

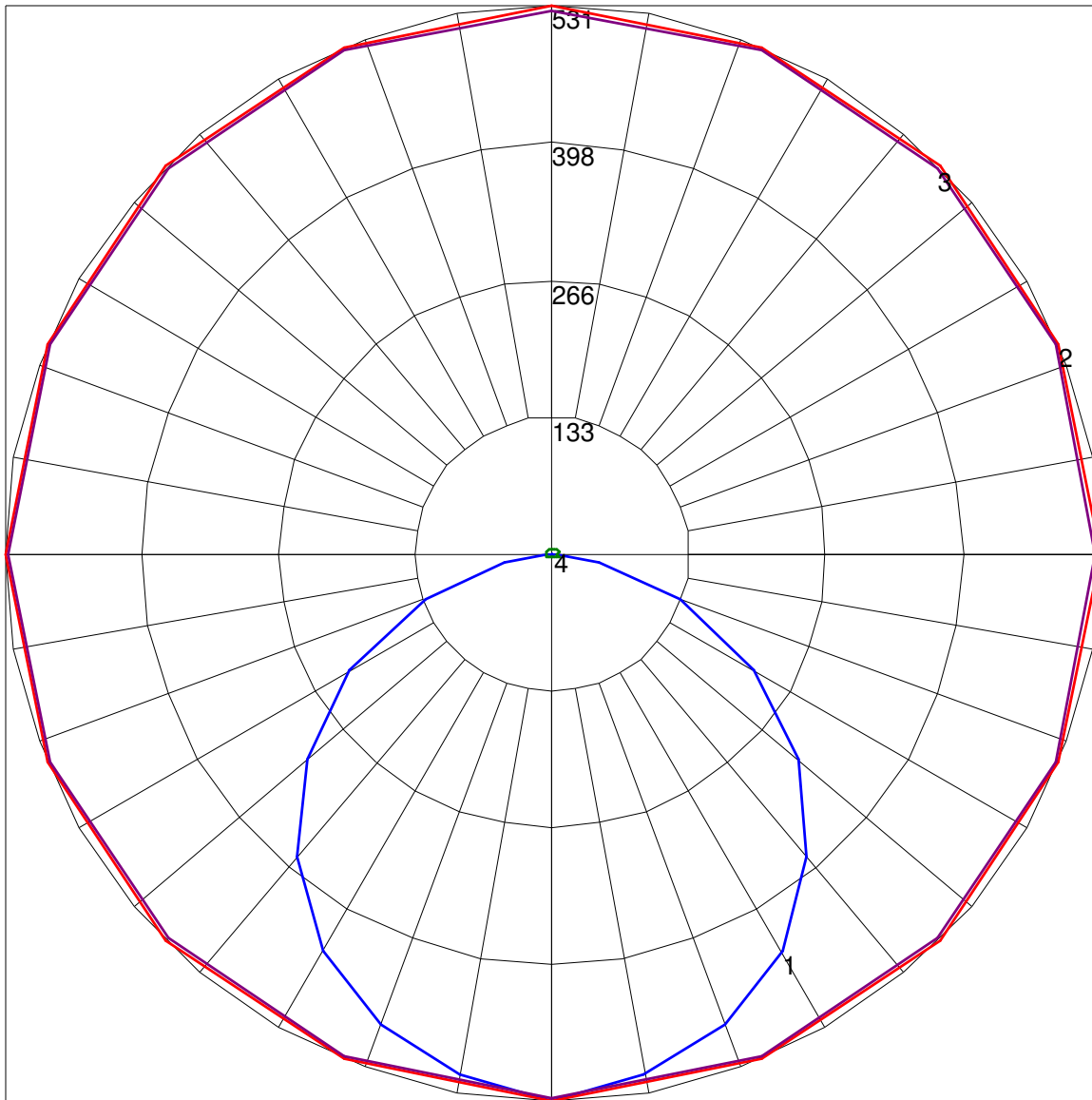
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

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	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	90	88	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	88	79	72	66	76	70	65	73	68	63	71	66	62	60
4	83	72	63	56	81	70	62	56	68	61	55	65	59	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	52	47	57	51	47	45
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 531.1 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)
3 - Horizontal Cone Through Vertical Angle (2)
4 - Horizontal Cone Through Vertical Angle (90)