



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4DR-TL-L10-840-DIM-UNV-OW-OF-BL_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TESTLAB] GEN FROM Photopia 2021.0.0 see: www.ltiopics.com/ies
 [ISSUEDATE] 05-31-2024
 [TESTDATE] Fri Dec 10 15:39:06 2021
 [TEST] HEW PHOTOMETRIC REPORT #W00539
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] 4DR-TL-L10-840-DIM-UNV-OW-OF-BL
 [LUMINAIRE] 4 INCH ROUND RECESSED LED DOWNLIGHT
 [MORE] WITH WIDE DIST OPEN BLACK TRIM
 [LAMP] LED 16.8W Vero COB array (500mA)
 [LAMPCAT] BXRC-30E2000
 [OTHER] THIS DATA IS BASED ON IN-HOUSE COMPUTER
 [OTHER] SIMULATIONS AND IS PROVIDED AS A GOOD-FAITH
 [OTHER] ESTIMATE OF PHOTOMETRIC PERFORMANCE.

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	488
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	54
Total Luminaire Watts	9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.08
Spacing Criterion (90-270)	1.08
Spacing Criterion (Diagonal)	0.88
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.46 ft
Luminous Width (90-270)	0.46 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	299	336	336
55	230	230	230
65	188	188	188
75	102	102	102
85	0	0	0

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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	561.270	561.270	561.270	561.270	561.270
5	560.754	554.048	567.976	550.952	558.690
10	566.944	562.302	555.595	554.563	555.079
15	540.635	547.341	555.595	552.500	540.119
20	532.897	532.381	532.381	533.929	529.286
25	518.968	511.230	507.103	516.905	518.452
30	336.349	339.960	334.802	332.222	331.190
35	13.413	13.413	13.929	13.413	13.413
40	4.643	4.643	4.643	4.643	4.643
45	4.127	4.643	4.643	4.127	4.643
50	3.611	3.611	3.611	3.611	3.611
55	2.579	2.579	2.579	2.579	2.579
60	2.063	2.063	2.063	2.063	2.063
65	1.548	1.548	1.548	1.548	1.548
70	1.032	1.032	1.032	1.032	1.032
75	0.516	0.516	0.516	0.516	0.516
80	0.516	0.516	0.516	0.516	0.516
85	0.000	0.000	0.000	0.000	0.000
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	208.13	N.A.	42.70
0-30	425.23	N.A.	87.20
0-40	479.62	N.A.	98.30
0-60	485.35	N.A.	99.50
0-80	487.56	N.A.	100.00
0-90	487.70	N.A.	100.00
10-90	434.38	N.A.	89.10
20-40	271.49	N.A.	55.70
20-50	274.80	N.A.	56.30
40-70	7.26	N.A.	1.50
60-80	2.21	N.A.	0.50
70-80	0.68	N.A.	0.10
80-90	0.14	N.A.	0.00
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	487.70	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	53.32
10-20	154.81
20-30	217.10
30-40	54.39
40-50	3.31
50-60	2.42
60-70	1.53
70-80	0.68
80-90	0.14
90-100	0.00
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

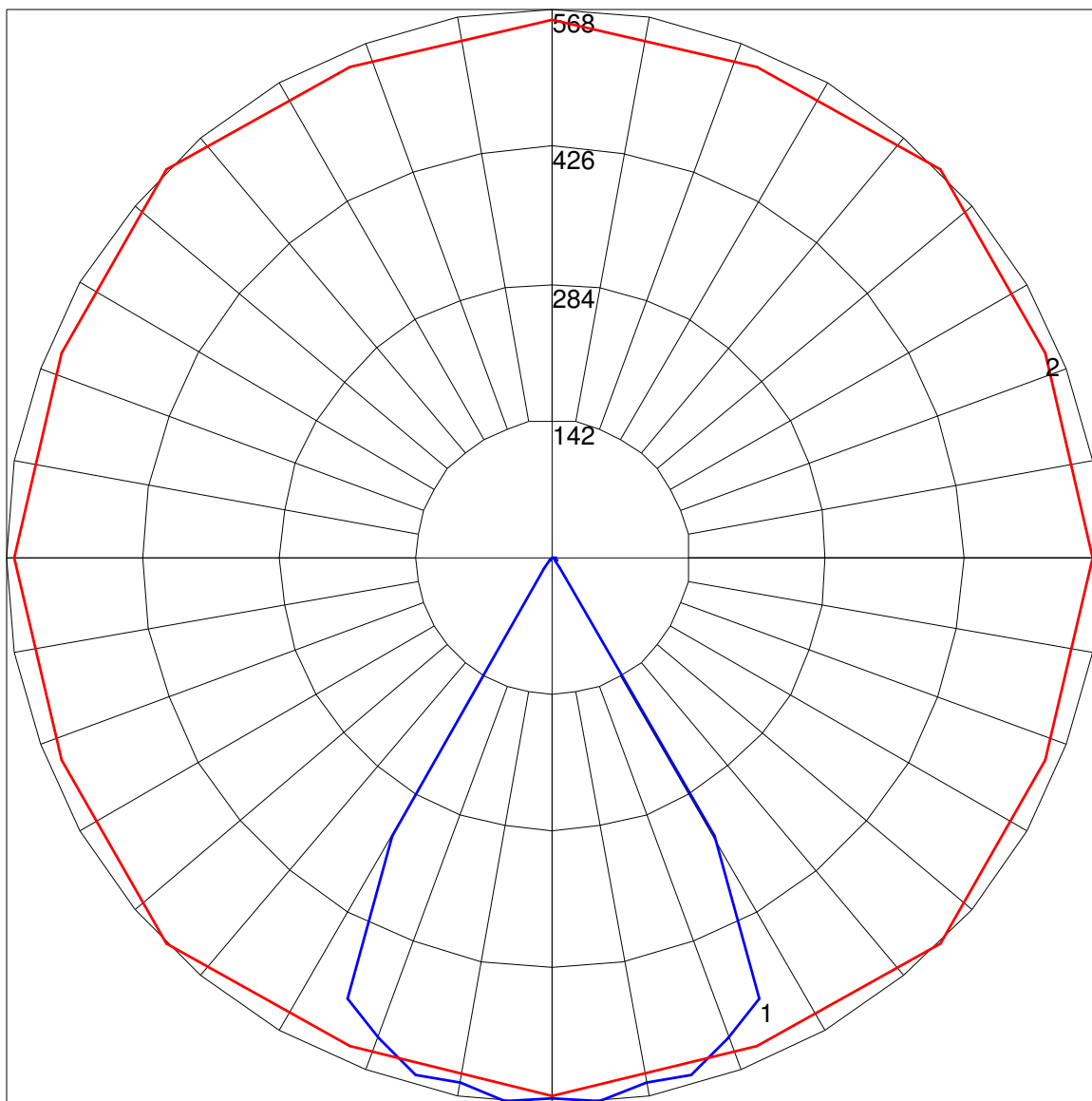
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	100	97	107	103	99	96	99	97	94	96	94	92	94	92	90	89
3	104	98	93	90	102	97	92	89	94	90	88	92	89	86	89	87	85	83
4	99	92	87	83	97	91	86	83	89	85	82	87	84	81	85	82	80	78
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74
6	90	82	77	73	89	81	76	72	80	75	72	79	75	71	77	74	71	70
7	86	78	72	68	85	77	72	68	76	71	68	75	71	67	74	70	67	66
8	82	74	68	64	81	73	68	64	72	67	64	71	67	64	70	66	63	62
9	79	70	64	61	78	69	64	61	69	64	60	68	63	60	67	63	60	59
10	75	66	61	57	75	66	61	57	65	61	57	65	60	57	64	60	57	56

POLAR GRAPH



Maximum Candela = 567.976 Located At Horizontal Angle = 45, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)