

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1025584

Luminaire Tested: S124DIP-B575D365UB30-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025584
REPORT IS A COMBINATION OF REPORTS P996169 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B575D365UB30-4F0-XX-W2A-F
Description: Define 4 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

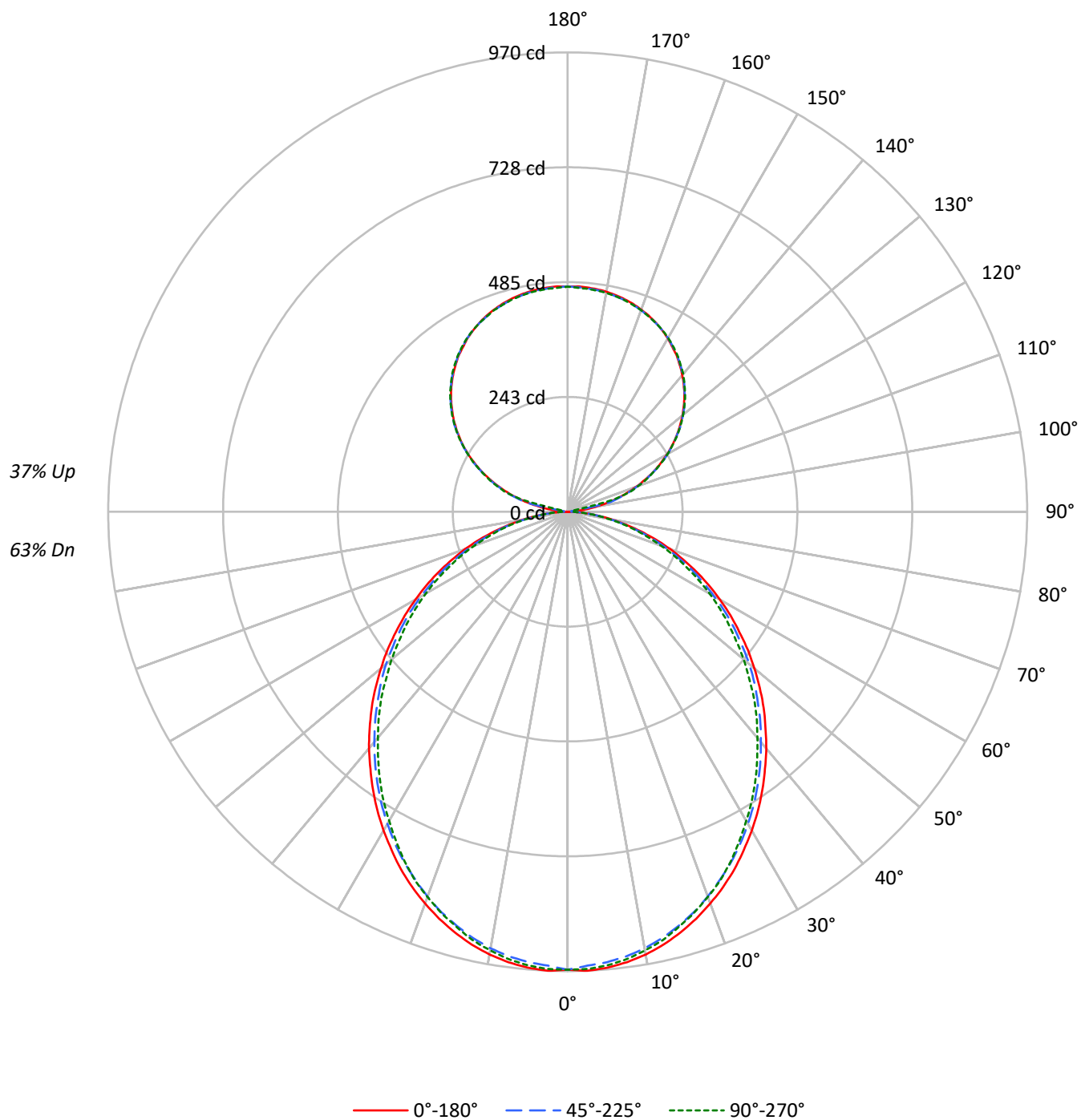
Lumens per Lamp: N/A
Luminaire Lumens: 3954.0 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 33.3
Input Voltage (V):
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: 24 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
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																					
0	110	110	110	110		103	103	103	103		90	90	90		79	79	79		68	68	68
1	101	96	92	89		94	90	87	84		79	77	74		69	67	66		60	59	57
2	92	84	78	72		86	79	73	69		70	65	62		61	58	55		53	50	48
3	84	74	66	60		78	70	63	57		61	56	52		54	50	46		47	44	41
4	77	65	57	51		71	62	54	49		55	49	44		48	43	40		42	38	35
5	70	58	50	44		66	55	48	42		49	43	38		43	38	34		38	34	31
6	65	52	44	38		61	50	42	37		44	38	33		39	34	30		34	30	27
7	60	47	39	34		56	45	37	32		40	34	29		36	31	27		31	27	24
8	56	43	35	30		52	41	34	29		37	31	26		33	28	24		29	25	22
9	52	39	32	27		49	37	30	26		34	28	24		30	25	22		27	23	20
10	49	36	29	24		46	34	28	23		31	25	21		28	23	20		25	21	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7885	7885	7885
5°	7892	7659	7668
10°	7825	7446	7394
15°	7713	7193	7084
20°	7569	6920	6765
25°	7409	6631	6420
30°	7214	6318	6042
35°	7012	5999	5676
40°	6802	5655	5287
45°	6582	5309	4923
50°	6338	4974	4521
55°	6073	4585	4121
60°	5801	4156	3705
65°	5492	3714	3235
70°	5133	3182	2732
75°	4599	2565	2188
80°	3920	1854	1539
85°	3042	1033	828

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6582 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.1	2.3
10°-20°	256.8	6.5
20°-30°	377.9	9.6
30°-40°	439.3	11.1
40°-50°	439.3	11.1
50°-60°	384.2	9.7
60°-70°	285.2	7.2
70°-80°	161.8	4.1
80°-90°	47.3	1.2
90°-100°	15.8	0.4
100°-110°	103.9	2.6
110°-120°	198.4	5.0
120°-130°	251.9	6.4
130°-140°	269.5	6.8
140°-150°	252.0	6.4
150°-160°	203.2	5.1
160°-170°	131.1	3.3
170°-180°	45.2	1.1
0°-30°	725.8	18.4
0°-40°	1165.1	29.5
0°-60°	1988.6	50.3
0°-90°	2483.0	62.8
90°-120°	318.1	8.0
90°-150°	1091.6	27.6
90°-180°	1471.0	37.2
0°-180°	3954.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	967	967	967	967	967	
5°	966	963	955	963	962	92
15°	920	917	905	910	907	259
25°	833	828	817	818	814	383
35°	717	711	700	695	691	448
45°	585	580	567	559	556	451
55°	442	440	429	420	415	396
65°	300	296	288	280	277	297
75°	160	156	152	149	148	169
85°	42	42	40	40	40	45
90°	1	5	8	10	11	4
95°	20	8	8	10	10	24
105°	107	109	111	114	101	112
115°	200	201	200	201	201	197
125°	281	282	282	283	283	251
135°	348	348	350	350	351	269
145°	402	403	403	403	404	251
155°	440	441	440	441	440	203
165°	465	463	463	466	463	131
175°	475	473	474	477	472	45
180°	475	475	475	475	475	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	967.0	967.0	967.0	967.0	967.0
2.5°	970.1	967.8	959.3	967.0	966.2
5°	966.2	963.1	954.6	963.1	961.6
7.5°	959.3	956.2	946.9	953.8	953.1
10°	949.2	946.1	936.0	942.2	940.7
12.5°	936.0	932.9	922.1	929.0	926.7
15°	919.7	916.6	905.0	909.7	907.3
17.5°	901.1	897.3	886.4	889.5	888.0
20°	880.2	876.3	864.7	867.0	865.5
22.5°	857.7	852.3	840.7	845.4	842.3
25°	833.0	827.5	816.7	817.5	814.4
27.5°	805.1	799.6	789.6	788.0	784.1
30°	777.2	771.0	760.9	757.8	753.9
32.5°	747.7	742.3	731.5	727.6	723.7
35°	716.7	711.3	700.5	695.0	691.2
37.5°	684.2	679.5	667.9	662.5	657.1
40°	652.4	646.2	634.6	626.8	623.0
42.5°	618.3	615.2	602.1	592.8	590.4
45°	585.0	579.6	567.2	558.7	556.3
47.5°	550.1	546.3	534.6	525.3	519.1
50°	514.5	511.4	500.5	489.7	485.1
52.5°	479.6	475.8	464.1	454.8	448.6
55°	442.4	440.1	429.3	420.0	415.3
57.5°	407.6	405.2	394.4	385.1	380.4
60°	371.1	367.3	357.2	350.2	346.4
62.5°	335.5	332.4	321.6	315.4	311.5
65°	299.9	296.0	288.2	280.5	276.6
67.5°	263.4	260.3	252.6	244.8	244.1
70°	230.1	224.7	218.5	212.3	210.0
72.5°	194.5	189.1	184.4	179.8	177.4
75°	159.6	155.7	151.9	148.8	148.0
77.5°	125.5	124.0	120.1	119.3	117.0
80°	95.3	93.0	91.4	89.9	89.1
82.5°	65.9	65.1	65.1	64.3	63.5
85°	41.8	41.8	40.3	40.3	39.5
87.5°	20.1	19.4	18.6	18.6	18.6
90°	1.1	5.0	7.8	10.0	10.7
92.5°	5.3	4.6	7.5	9.6	9.6
95°	19.6	7.5	7.8	10.0	10.3
97.5°	37.3	45.2	7.8	9.6	10.0
100°	58.3	64.7	15.6	9.6	10.0
102.5°	81.8	86.0	90.3	10.3	10.3
105°	107.0	109.2	110.9	114.1	101.3
107.5°	130.1	131.2	133.7	135.5	136.9
110°	153.6	154.7	156.8	157.5	158.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	176.4	178.5	179.2	178.8	180.3
115°	199.8	200.9	200.5	201.2	201.2
117.5°	220.8	222.2	223.3	222.9	222.9
120°	242.1	243.6	243.2	243.9	243.2
122.5°	262.1	262.8	263.5	263.8	263.1
125°	280.9	282.3	281.6	282.7	283.0
127.5°	299.0	299.4	301.2	300.8	300.5
130°	316.5	316.8	317.9	318.2	318.2
132.5°	332.5	333.2	334.6	334.9	334.6
135°	348.5	348.1	349.5	350.2	350.9
137.5°	362.7	362.7	364.5	365.2	364.8
140°	376.5	377.3	378.0	379.0	379.4
142.5°	389.0	390.4	390.8	391.5	391.5
145°	401.8	402.9	402.9	403.2	403.9
147.5°	411.7	413.9	413.5	413.9	414.2
150°	422.8	424.2	423.8	423.8	424.2
152.5°	432.0	433.1	432.4	433.1	432.7
155°	440.5	440.9	439.8	441.3	440.2
157.5°	448.0	448.0	446.6	448.4	446.6
160°	454.4	453.3	453.0	455.1	453.0
162.5°	460.1	458.7	458.3	460.5	458.0
165°	464.7	462.9	462.9	465.8	462.6
167.5°	468.6	466.9	466.5	469.7	466.1
170°	471.8	469.7	470.1	472.9	469.3
172.5°	474.0	471.8	472.2	475.0	471.1
175°	475.4	473.3	473.6	476.8	472.5
177.5°	476.5	474.0	474.7	477.5	473.3
180°	475.4	475.4	475.4	475.4	475.4

(END OF REPORT)