

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: P1025655

Luminaire Tested: S124DIP-B575D590UB50-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025655
REPORT IS A COMBINATION OF REPORTS P996255 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B575D590UB50-4F0-XX-W2A-D4
Description: Define 4 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

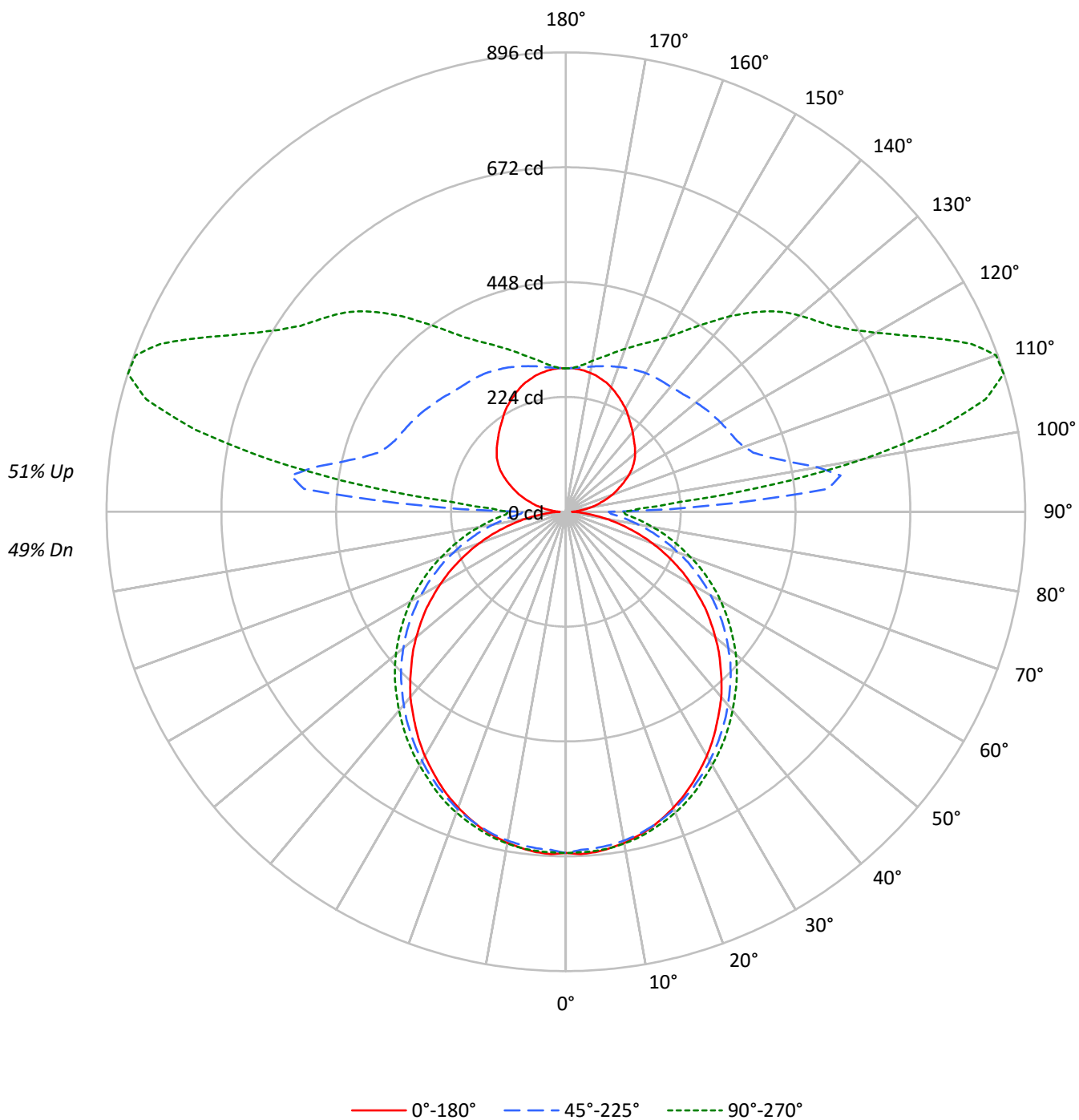
Lumens per Lamp: N/A
Luminaire Lumens: 4312.1 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 39.4
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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	107	107	107	107	98	98	98	98		83	83	83		68	68	68		55	55	55
1	97	92	88	84	89	85	81	78		71	68	66		58	57	55		47	46	44
2	87	80	73	67	80	73	68	63		62	57	54		51	48	45		41	39	37
3	80	70	62	56	73	64	57	52		54	49	45		45	41	38		36	33	31
4	73	61	53	47	66	57	49	44		48	42	38		39	35	32		32	29	26
5	66	54	46	40	61	50	43	37		43	37	32		35	31	27		28	25	23
6	61	49	40	34	56	45	38	32		38	32	28		32	27	24		26	22	20
7	56	44	36	30	52	41	33	28		35	29	25		29	24	21		23	20	17
8	52	40	32	26	48	37	30	25		31	26	22		26	22	19		21	18	16
9	49	36	29	23	45	34	27	22		29	23	19		24	20	17		20	16	14
10	45	33	26	21	42	31	24	20		26	21	17		22	18	15		18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5427	5427	5427
5°	5442	5285	5295
10°	5406	5182	5167
15°	5356	5065	5022
20°	5281	4938	4881
25°	5197	4798	4729
30°	5105	4660	4575
35°	5001	4518	4437
40°	4918	4383	4294
45°	4796	4255	4168
50°	4691	4111	4036
55°	4583	3972	3883
60°	4416	3798	3738
65°	4230	3611	3565
70°	4007	3397	3364
75°	3694	3160	3173
80°	3340	2916	2975
85°	2874	2673	2811

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4796 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.1	1.5
10°-20°	180.7	4.2
20°-30°	273.2	6.3
30°-40°	330.5	7.7
40°-50°	349.4	8.1
50°-60°	328.8	7.6
60°-70°	272.9	6.3
70°-80°	191.5	4.4
80°-90°	109.0	2.5
90°-100°	272.1	6.3
100°-110°	470.3	10.9
110°-120°	408.7	9.5
120°-130°	334.5	7.8
130°-140°	271.9	6.3
140°-150°	203.2	4.7
150°-160°	141.8	3.3
160°-170°	83.4	1.9
170°-180°	27.1	0.6
0°-30°	516.9	12.0
0°-40°	847.4	19.7
0°-60°	1525.6	35.4
0°-90°	2099.0	48.7
90°-120°	1151.2	26.7
90°-150°	1960.8	45.5
90°-180°	2213.0	51.3
0°-180°	4312.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	666	666	666	666	666	
5°	666	664	659	665	664	63
15°	639	639	637	644	643	180
25°	584	589	591	599	600	269
35°	511	520	528	538	540	320
45°	426	440	455	467	471	329
55°	334	350	372	387	391	298
65°	231	255	280	299	305	229
75°	128	156	187	208	215	136
85°	40	71	104	127	134	41
90°	12	46	84	106	113	9
95°	28	91	513	307	226	28
105°	71	115	410	844	847	76
115°	118	153	357	669	799	117
125°	161	190	341	561	632	143
135°	189	225	324	485	553	146
145°	217	247	316	398	440	136
155°	246	265	307	347	362	113
165°	268	276	294	311	316	76
175°	279	280	282	286	285	27
180°	280	280	280	280	280	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	665.5	665.5	665.5	665.5	665.5
2.5°	668.5	666.3	660.3	665.5	664.8
5°	666.3	664.0	658.8	664.8	664.0
7.5°	661.8	660.3	655.8	662.5	661.8
10°	655.8	655.1	651.4	658.1	657.3
12.5°	647.6	647.6	645.4	651.4	651.4
15°	638.7	639.4	637.2	643.9	643.2
17.5°	626.8	629.0	628.2	635.0	634.2
20°	614.1	616.3	617.1	624.5	624.5
22.5°	599.9	602.9	604.4	611.9	613.3
25°	584.3	588.7	591.0	599.2	599.9
27.5°	567.1	573.8	576.8	584.3	585.0
30°	550.0	556.0	561.2	569.4	570.9
32.5°	531.4	538.8	544.8	554.5	556.0
35°	511.2	520.2	527.6	538.1	540.3
37.5°	491.1	501.6	510.5	520.9	523.2
40°	471.7	481.4	491.9	503.0	506.0
42.5°	449.4	460.6	473.2	485.9	488.1
45°	426.3	440.4	454.6	467.3	471.0
47.5°	404.7	418.8	435.2	447.9	452.4
50°	380.8	397.2	413.6	428.5	433.0
52.5°	357.0	373.4	392.7	407.7	412.1
55°	333.9	349.5	371.9	386.8	391.3
57.5°	307.8	327.2	348.8	366.7	370.4
60°	282.5	301.8	326.4	343.6	349.5
62.5°	257.9	279.5	304.1	321.2	327.2
65°	231.0	254.9	280.2	298.8	304.8
67.5°	205.7	231.0	257.9	276.5	282.5
70°	179.6	204.9	233.3	253.4	258.6
72.5°	154.3	180.4	210.9	230.3	236.2
75°	128.2	155.8	187.1	207.9	214.6
77.5°	103.6	132.7	165.4	186.3	193.8
80°	81.2	111.0	143.8	166.2	172.2
82.5°	58.9	90.2	123.0	146.1	152.8
85°	39.5	70.8	104.3	126.7	134.1
87.5°	24.6	55.1	87.9	109.6	116.3
90°	12.4	46.1	83.7	106.4	112.9
92.5°	18.9	79.6	284.8	161.4	146.1
95°	27.8	91.4	512.8	306.8	225.8
97.5°	39.1	93.8	540.5	533.5	409.3
100°	50.0	99.1	498.6	703.4	586.1
102.5°	61.0	106.0	448.1	807.8	740.7
105°	71.0	114.8	409.8	844.2	847.3
107.5°	83.7	124.6	383.6	828.2	895.5
110°	95.6	133.8	370.1	779.8	892.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	106.9	143.6	361.5	721.4	856.0
115°	117.7	153.3	356.6	669.3	799.3
117.5°	129.8	162.8	352.3	627.0	744.4
120°	141.1	171.5	348.6	596.9	698.2
122.5°	152.1	180.4	344.3	576.4	660.8
125°	160.8	189.6	340.8	560.8	632.1
127.5°	169.6	199.5	335.9	545.1	613.0
130°	175.9	208.4	331.7	527.8	595.3
132.5°	183.1	216.7	328.1	508.2	576.8
135°	189.0	224.6	323.9	485.4	553.0
137.5°	195.6	230.8	320.9	461.8	526.0
140°	202.7	237.1	318.1	438.8	497.6
142.5°	209.6	242.8	316.6	418.0	467.5
145°	216.7	247.4	315.5	398.1	440.1
147.5°	225.0	252.3	313.9	380.8	414.3
150°	232.7	257.0	312.2	367.8	392.5
152.5°	239.1	261.4	309.5	357.4	376.0
155°	245.7	265.2	306.7	347.4	362.3
157.5°	252.3	268.8	304.0	338.0	349.6
160°	258.4	271.8	300.7	328.7	338.1
162.5°	263.9	274.3	297.4	319.6	327.1
165°	267.7	276.0	294.1	311.4	316.1
167.5°	272.1	277.4	290.8	304.2	307.3
170°	274.9	278.5	287.5	297.1	299.0
172.5°	277.6	279.2	284.2	290.8	290.8
175°	279.3	279.8	282.0	285.9	284.8
177.5°	280.4	279.8	280.4	282.3	280.4
180°	279.8	279.8	279.8	279.8	279.8

(END OF REPORT)