

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: P1025700

Luminaire Tested: S124DIP-B575D810UB50-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025700
REPORT IS A COMBINATION OF REPORTS P996315 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B575D810UB50-4F0-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

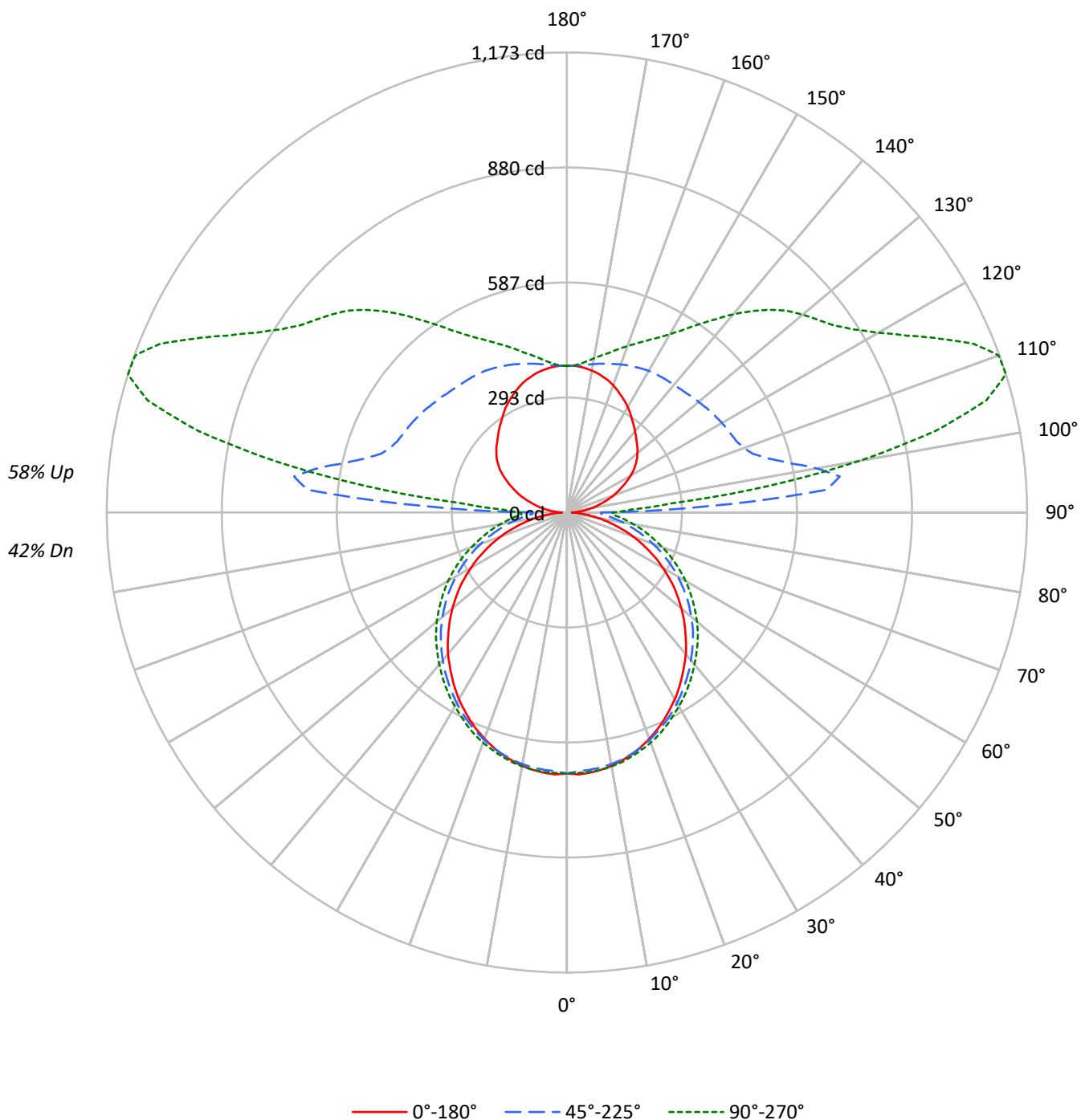
Lumens per Lamp: N/A
Luminaire Lumens: 4998.4 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 45.1
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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49
1	95	91	86	83	87	83	79	76	68	65	63	54	52	51	42	41	39
2	86	79	72	67	78	72	66	61	59	55	51	47	44	42	36	34	33
3	78	69	61	55	71	63	56	51	52	47	43	41	38	35	32	29	27
4	72	61	52	46	65	55	48	43	46	40	36	37	33	30	28	26	23
5	66	54	45	39	59	49	42	37	41	35	31	33	29	25	25	22	20
6	60	48	40	34	55	44	37	32	37	31	27	29	25	22	23	20	18
7	56	43	35	30	51	40	33	28	33	27	23	27	23	19	21	18	15
8	52	39	31	26	47	36	29	24	30	25	21	24	20	17	19	16	14
9	48	36	28	23	44	33	26	21	27	22	18	22	18	15	18	15	12
10	45	33	25	21	41	30	24	19	25	20	17	21	17	14	16	13	11

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	1.3
10°-20°	180.7	3.6
20°-30°	273.2	5.5
30°-40°	330.5	6.6
40°-50°	349.4	7.0
50°-60°	328.8	6.6
60°-70°	272.9	5.5
70°-80°	191.5	3.8
80°-90°	109.4	2.2
90°-100°	341.9	6.8
100°-110°	612.3	12.3
110°-120°	535.3	10.7
120°-130°	440.8	8.8
130°-140°	360.6	7.2
140°-150°	271.0	5.4
150°-160°	189.4	3.8
160°-170°	111.4	2.2
170°-180°	36.2	0.7
0°-30°	516.9	10.3
0°-40°	847.4	17.0
0°-60°	1525.6	30.5
0°-90°	2099.3	42.0
90°-120°	1489.6	29.8
90°-150°	2562.0	51.3
90°-180°	2899.0	58.0
0°-180°	4998.4	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°	13	48	87	110	117	10
95°	34	111	663	381	271	34
105°	93	146	531	1105	1107	99
115°	156	201	465	877	1049	155
125°	214	253	448	737	831	191
135°	252	300	430	642	731	195
145°	289	330	422	530	586	182
155°	328	354	410	464	484	151
165°	358	369	393	416	422	101
175°	373	374	377	382	380	35
180°	374	374	374	374	374	

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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°	12.6	47.6	87.0	110.1	116.8
92.5°	21.5	93.8	357.2	185.3	162.9
95°	33.9	110.7	663.3	381.3	270.9
97.5°	49.3	115.0	701.5	685.6	517.6
100°	64.0	123.0	647.1	914.0	755.4
102.5°	78.7	133.3	580.9	1055.0	963.2
105°	92.6	146.0	531.0	1105.1	1107.1
107.5°	109.5	160.0	497.2	1085.0	1173.1
110°	125.7	173.2	480.2	1021.6	1170.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	141.1	187.1	469.9	945.2	1123.0
115°	155.8	201.0	464.6	876.8	1048.8
117.5°	171.9	214.5	460.2	821.8	976.8
120°	187.3	227.0	456.5	783.2	916.5
122.5°	202.0	239.8	452.0	757.0	868.0
125°	213.8	252.6	448.3	737.4	831.2
127.5°	225.5	265.8	443.0	718.0	806.9
130°	234.3	278.0	438.6	696.2	784.8
132.5°	243.8	289.0	434.9	671.2	761.3
135°	251.9	299.6	430.4	642.1	731.1
137.5°	260.7	308.0	427.4	612.0	696.4
140°	270.3	316.5	424.5	582.6	659.7
142.5°	279.8	324.2	423.0	555.7	620.7
145°	289.3	330.5	421.5	530.3	585.5
147.5°	300.3	337.0	419.3	508.6	552.3
150°	310.6	343.4	417.1	491.3	524.4
152.5°	319.5	349.2	413.5	477.4	502.3
155°	328.3	354.4	409.8	464.1	484.0
157.5°	337.1	359.1	406.1	451.6	467.1
160°	345.2	363.2	401.7	439.2	451.7
162.5°	352.5	366.4	397.3	427.0	437.0
165°	357.7	368.7	392.9	416.0	422.3
167.5°	363.5	370.5	388.5	406.5	410.5
170°	367.2	372.0	384.1	396.9	399.5
172.5°	370.9	373.0	379.7	388.5	388.5
175°	373.1	373.8	376.7	381.9	380.4
177.5°	374.5	373.8	374.5	377.1	374.5
180°	373.8	373.8	373.8	373.8	373.8

(END OF REPORT)