

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: P1025691

Luminaire Tested: S124DIP-B575D810UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025691
REPORT IS A COMBINATION OF REPORTS P996306 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B575D810UB40-4F0-XX-W2A-D4
Description: Define 4 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

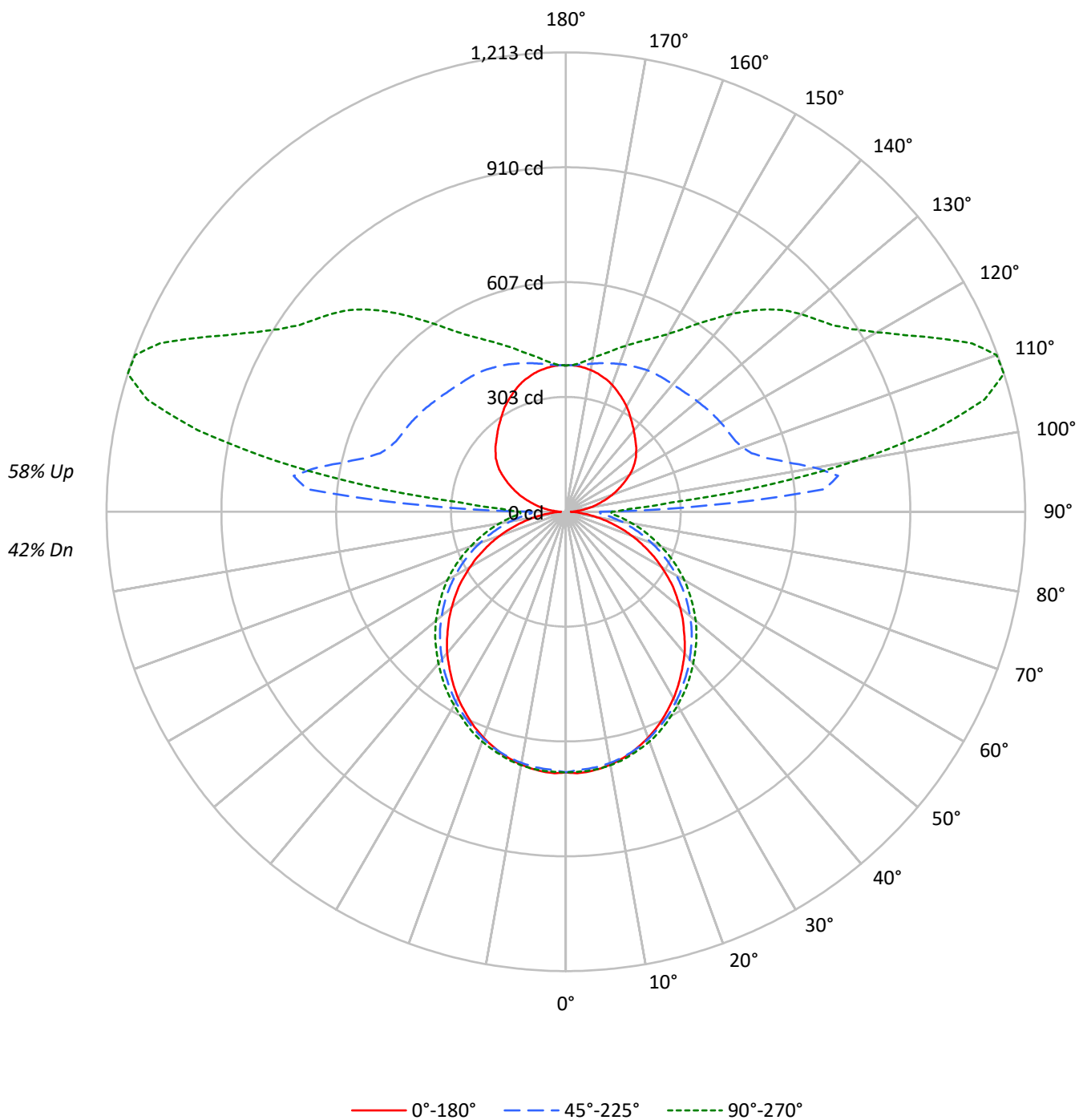
Lumens per Lamp: N/A
Luminaire Lumens: 5167.6 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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°	5611	5611	5611
5°	5627	5465	5475
10°	5590	5358	5342
15°	5538	5236	5192
20°	5460	5105	5047
25°	5373	4961	4890
30°	5279	4818	4730
35°	5172	4672	4587
40°	5086	4532	4440
45°	4959	4400	4310
50°	4850	4251	4173
55°	4738	4106	4014
60°	4565	3927	3865
65°	4375	3733	3686
70°	4143	3512	3479
75°	3818	3266	3281
80°	3455	3016	3075
85°	2969	2765	2907

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4959 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.2	1.3
10°-20°	186.8	3.6
20°-30°	282.4	5.5
30°-40°	341.7	6.6
40°-50°	361.2	7.0
50°-60°	340.0	6.6
60°-70°	282.1	5.5
70°-80°	198.0	3.8
80°-90°	113.1	2.2
90°-100°	353.5	6.8
100°-110°	633.0	12.2
110°-120°	553.4	10.7
120°-130°	455.7	8.8
130°-140°	372.8	7.2
140°-150°	280.2	5.4
150°-160°	195.8	3.8
160°-170°	115.2	2.2
170°-180°	37.4	0.7
0°-30°	534.4	10.3
0°-40°	876.2	17.0
0°-60°	1577.4	30.5
0°-90°	2170.6	42.0
90°-120°	1539.9	29.8
90°-150°	2648.6	51.3
90°-180°	2997.0	58.0
0°-180°	5167.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	688	688	688	688	688	
5°	689	687	681	687	687	65
15°	660	661	659	666	665	186
25°	604	609	611	620	620	278
35°	529	538	546	556	559	331
45°	441	455	470	483	487	341
55°	345	361	384	400	404	308
65°	239	264	290	309	315	237
75°	132	161	193	215	222	141
85°	41	73	108	131	139	43
90°	13	49	90	114	121	10
95°	35	114	686	394	280	35
105°	96	151	549	1142	1144	102
115°	161	208	480	907	1084	160
125°	221	261	464	762	859	197
135°	260	310	445	664	756	202
145°	299	342	436	548	605	188
155°	339	366	424	480	500	157
165°	370	381	406	430	436	104
175°	386	386	390	395	393	37
180°	386	386	386	386	386	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	688.1	688.1	688.1	688.1	688.1
2.5°	691.2	688.9	682.7	688.1	687.3
5°	688.9	686.6	681.2	687.3	686.6
7.5°	684.2	682.7	678.1	685.0	684.2
10°	678.1	677.3	673.5	680.4	679.6
12.5°	669.6	669.6	667.3	673.5	673.5
15°	660.4	661.1	658.8	665.7	665.0
17.5°	648.0	650.3	649.6	656.5	655.7
20°	634.9	637.2	638.0	645.7	645.7
22.5°	620.3	623.4	624.9	632.6	634.2
25°	604.1	608.7	611.0	619.5	620.3
27.5°	586.4	593.3	596.4	604.1	604.9
30°	568.7	574.8	580.2	588.7	590.2
32.5°	549.4	557.1	563.3	573.3	574.8
35°	528.6	537.8	545.5	556.3	558.6
37.5°	507.8	518.6	527.8	538.6	540.9
40°	487.8	497.8	508.6	520.1	523.2
42.5°	464.6	476.2	489.3	502.4	504.7
45°	440.8	455.4	470.0	483.1	487.0
47.5°	418.4	433.0	450.0	463.1	467.7
50°	393.7	410.7	427.7	443.1	447.7
52.5°	369.1	386.0	406.1	421.5	426.1
55°	345.2	361.4	384.5	399.9	404.5
57.5°	318.2	338.3	360.6	379.1	383.0
60°	292.0	312.1	337.5	355.2	361.4
62.5°	266.6	289.0	314.4	332.1	338.3
65°	238.9	263.5	289.7	309.0	315.2
67.5°	212.7	238.9	266.6	285.9	292.0
70°	185.7	211.9	241.2	262.0	267.4
72.5°	159.5	186.5	218.1	238.1	244.3
75°	132.5	161.0	193.4	215.0	221.9
77.5°	107.1	137.2	171.1	192.6	200.3
80°	84.0	114.8	148.7	171.8	178.0
82.5°	60.9	93.2	127.1	151.0	158.0
85°	40.8	73.2	107.9	131.0	138.7
87.5°	25.4	57.0	90.9	113.3	120.2
90°	13.1	49.3	90.0	113.8	120.7
92.5°	22.2	97.0	369.3	191.5	168.5
95°	35.1	114.4	685.7	394.2	280.0
97.5°	51.0	118.9	725.2	708.8	535.1
100°	66.2	127.2	669.0	944.9	781.0
102.5°	81.4	137.8	600.6	1090.5	995.7
105°	95.7	151.0	548.9	1142.4	1144.5
107.5°	113.2	165.4	513.9	1121.6	1212.8
110°	129.9	179.0	496.4	1056.1	1210.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	145.9	193.4	485.7	977.2	1161.0
115°	161.0	207.8	480.3	906.6	1084.3
117.5°	177.7	221.8	475.8	849.4	1009.8
120°	193.7	234.7	471.9	809.6	947.5
122.5°	208.9	248.0	467.3	782.6	897.3
125°	221.0	261.2	463.5	762.4	859.2
127.5°	233.1	274.8	458.0	742.2	834.2
130°	242.2	287.3	453.5	719.7	811.3
132.5°	252.1	298.8	449.6	693.9	786.9
135°	260.4	309.8	445.0	663.8	755.8
137.5°	269.5	318.5	442.0	632.6	720.0
140°	279.4	327.3	438.8	602.3	682.0
142.5°	289.3	335.2	437.3	574.5	641.7
145°	299.2	341.6	435.8	548.2	605.2
147.5°	310.6	348.5	433.5	525.8	571.0
150°	321.2	354.9	431.2	507.9	542.1
152.5°	330.3	361.0	427.4	493.5	519.3
155°	339.4	366.3	423.6	479.8	500.3
157.5°	348.5	371.2	419.8	466.9	482.8
160°	356.8	375.4	415.3	454.0	466.9
162.5°	364.4	378.8	410.7	441.4	451.7
165°	369.7	381.1	406.2	430.1	436.5
167.5°	375.8	383.0	401.6	420.2	424.4
170°	379.6	384.5	397.1	410.4	413.0
172.5°	383.4	385.6	392.5	401.6	401.6
175°	385.7	386.4	389.5	394.8	393.3
177.5°	387.2	386.4	387.2	389.8	387.2
180°	386.4	386.4	386.4	386.4	386.4

(END OF REPORT)