

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: P1025511

Luminaire Tested: S124DIP-B575D1035UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025511
REPORT IS A COMBINATION OF REPORTS P996066 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B575D1035UB40-4F0-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

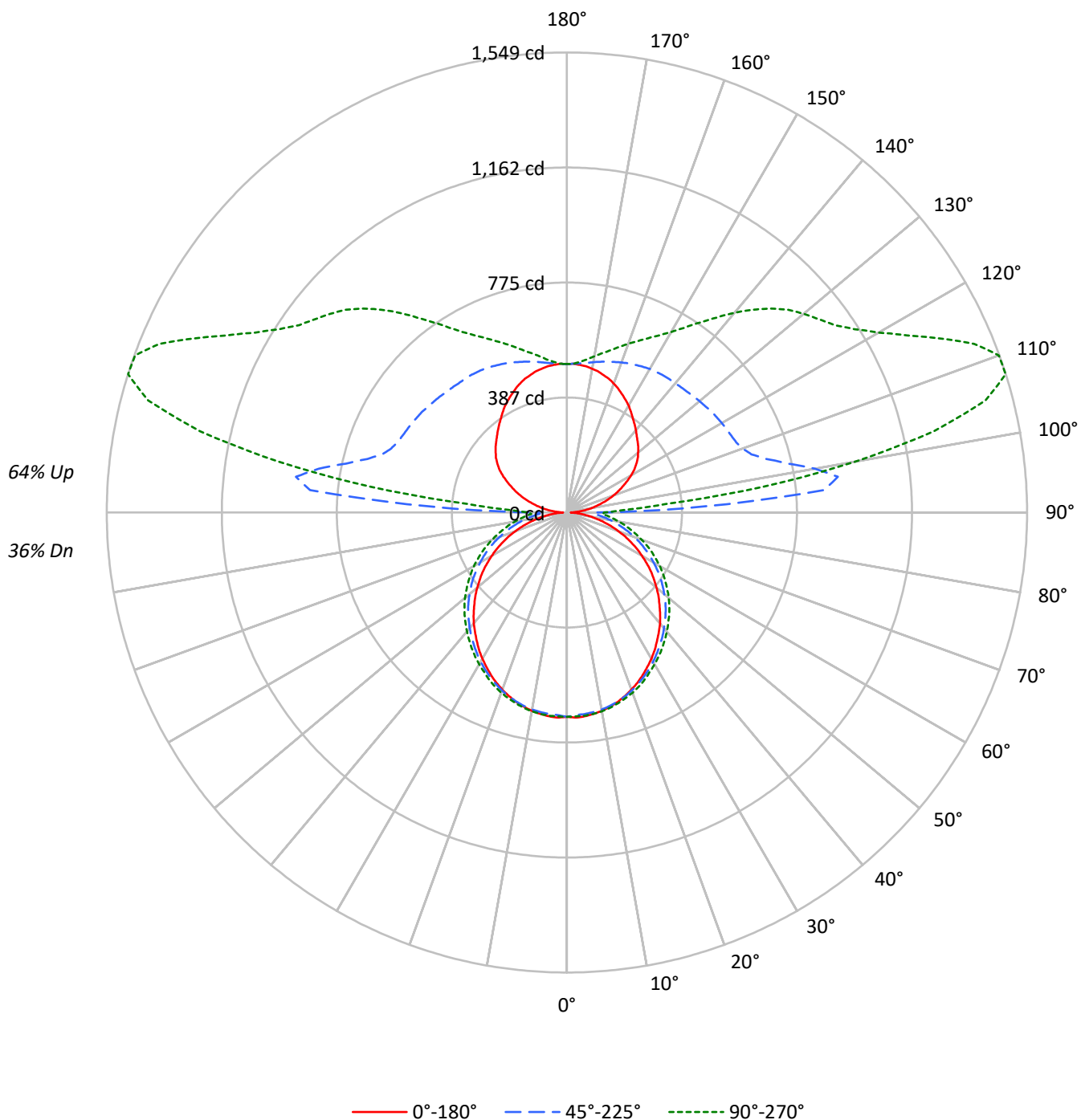
Lumens per Lamp: N/A
Luminaire Lumens: 5998.3 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 52.5
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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	43	43	43
1	94	89	85	82	85	81	77	74	65	63	60	51	49	47	37	36	35
2	85	78	71	66	77	70	65	60	57	53	49	44	41	39	32	31	29
3	78	68	60	55	70	62	55	50	50	45	41	39	35	33	28	26	24
4	71	60	52	46	64	54	47	42	44	39	35	34	31	28	25	23	21
5	65	53	45	39	58	48	41	36	39	34	30	31	27	24	23	20	18
6	60	47	39	34	54	43	36	31	35	30	26	27	24	21	20	18	16
7	55	43	35	29	49	39	32	27	32	26	22	25	21	18	19	16	14
8	51	39	31	26	46	35	28	24	29	24	20	23	19	16	17	14	12
9	47	35	28	23	43	32	25	21	26	21	18	21	17	14	16	13	11
10	44	32	25	20	40	29	23	19	24	19	16	19	15	13	14	12	10

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	1.1
10°-20°	186.8	3.1
20°-30°	282.4	4.7
30°-40°	341.7	5.7
40°-50°	361.2	6.0
50°-60°	340.0	5.7
60°-70°	282.1	4.7
70°-80°	198.0	3.3
80°-90°	113.5	1.9
90°-100°	438.0	7.3
100°-110°	804.9	13.4
110°-120°	706.6	11.8
120°-130°	584.4	9.7
130°-140°	480.2	8.0
140°-150°	362.2	6.0
150°-160°	253.5	4.2
160°-170°	149.1	2.5
170°-180°	48.5	0.8
0°-30°	534.4	8.9
0°-40°	876.2	14.6
0°-60°	1577.4	26.3
0°-90°	2171.0	36.2
90°-120°	1949.5	32.5
90°-150°	3376.3	56.3
90°-180°	3827.0	63.8
0°-180°	5998.3	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	51	94	118	125	11
95°	42	138	868	484	335	43
105°	122	189	696	1458	1459	130
115°	207	266	611	1158	1386	206
125°	285	337	594	976	1100	254
135°	337	400	574	854	971	260
145°	387	442	564	708	781	243
155°	439	474	548	621	648	203
165°	479	493	526	557	565	135
175°	499	500	504	511	509	47
180°	500	500	500	500	500	

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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°	13.3	51.1	94.0	118.3	125.4
92.5°	25.4	114.2	456.9	220.4	188.8
95°	42.4	137.6	867.9	484.4	334.6
97.5°	63.2	144.6	920.1	893.0	666.1
100°	83.2	156.2	848.7	1199.6	985.9
102.5°	102.8	170.8	761.3	1389.6	1265.1
105°	121.9	188.9	695.5	1458.2	1459.0
107.5°	144.5	208.2	651.4	1432.2	1548.7
110°	166.4	226.8	629.6	1348.9	1546.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	187.2	246.0	616.9	1248.0	1484.2
115°	207.0	265.7	611.1	1157.8	1386.2
117.5°	228.7	284.3	606.3	1085.2	1290.9
120°	249.6	302.0	602.4	1035.0	1211.6
122.5°	269.2	319.8	597.6	1001.2	1148.1
125°	285.1	337.4	593.5	976.2	1100.1
127.5°	300.9	355.0	587.7	951.4	1068.8
130°	312.8	371.4	582.9	923.4	1040.6
132.5°	325.6	386.2	578.8	891.2	1010.2
135°	336.6	400.5	573.9	853.6	971.2
137.5°	348.4	412.0	570.9	814.3	926.3
140°	361.2	423.4	567.5	776.2	878.2
142.5°	374.2	433.7	566.0	741.1	827.2
145°	387.0	442.2	564.1	708.2	781.1
147.5°	401.7	451.0	561.1	680.3	738.0
150°	415.5	459.4	558.2	657.4	701.6
152.5°	427.5	467.2	553.3	638.8	672.2
155°	439.3	474.2	548.3	621.1	647.6
157.5°	451.1	480.5	543.4	604.3	625.0
160°	461.9	485.9	537.5	587.7	604.4
162.5°	471.7	490.4	531.6	571.4	584.7
165°	478.6	493.4	525.7	556.7	565.1
167.5°	486.4	495.8	519.8	543.9	549.3
170°	491.3	497.8	514.0	531.2	534.6
172.5°	496.3	499.2	508.1	519.8	519.8
175°	499.2	500.2	504.1	511.0	509.0
177.5°	501.2	500.2	501.2	504.6	501.2
180°	500.2	500.2	500.2	500.2	500.2

(END OF REPORT)