

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: P1025745

Luminaire Tested: S124DIP-B795D1035UB50-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025745
REPORT IS A COMBINATION OF REPORTS P996375 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B795D1035UB50-4F0-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

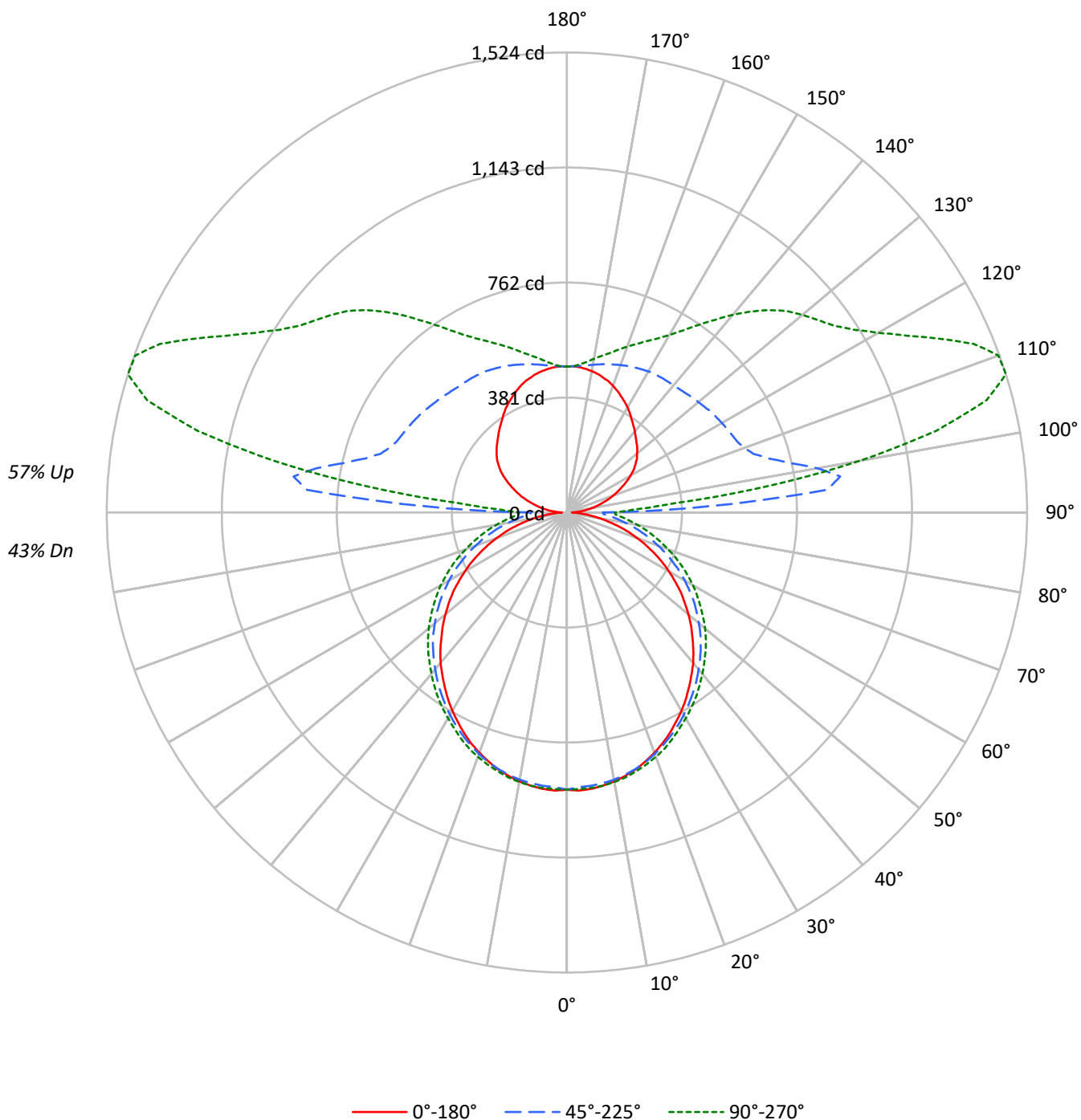
Lumens per Lamp: N/A
Luminaire Lumens: 6662.0 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 64.4
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				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50
1	95	91	87	83	87	83	79	76	69	66	64	55	53	52	43	42	41
2	87	79	72	67	79	72	66	62	59	55	52	48	45	42	37	35	33
3	79	69	61	55	71	63	56	51	52	47	43	42	38	35	33	30	28
4	72	61	53	46	65	56	49	43	46	41	36	37	33	30	29	26	24
5	66	54	46	39	60	49	42	37	41	35	31	33	29	26	26	23	21
6	60	48	40	34	55	44	37	32	37	31	27	30	26	22	23	20	18
7	56	43	35	30	51	40	33	28	33	28	24	27	23	20	21	18	16
8	52	39	31	26	47	36	29	24	30	25	21	25	21	18	20	17	14
9	48	36	28	23	44	33	26	22	28	22	19	23	19	16	18	15	13
10	45	33	25	21	41	30	24	19	25	20	17	21	17	14	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7486	7486	7486
5°	7507	7291	7304
10°	7458	7147	7127
15°	7388	6986	6927
20°	7285	6812	6733
25°	7168	6619	6524
30°	7042	6428	6311
35°	6899	6234	6121
40°	6785	6046	5924
45°	6616	5870	5750
50°	6471	5671	5567
55°	6323	5478	5355
60°	6090	5239	5157
65°	5836	4980	4918
70°	5528	4686	4641
75°	5095	4357	4378
80°	4611	4024	4103
85°	3966	3687	3878

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 6616 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.0	1.3
10°-20°	249.2	3.7
20°-30°	376.8	5.7
30°-40°	455.9	6.8
40°-50°	482.0	7.2
50°-60°	453.6	6.8
60°-70°	376.4	5.6
70°-80°	264.1	4.0
80°-90°	150.8	2.3
90°-100°	448.0	6.7
100°-110°	796.5	12.0
110°-120°	695.5	10.4
120°-130°	572.0	8.6
130°-140°	467.3	7.0
140°-150°	350.8	5.3
150°-160°	245.1	3.7
160°-170°	144.2	2.2
170°-180°	46.9	0.7
0°-30°	713.1	10.7
0°-40°	1169.0	17.5
0°-60°	2104.5	31.6
0°-90°	2895.8	43.5
90°-120°	1939.9	29.1
90°-150°	3330.0	50.0
90°-180°	3766.0	56.5
0°-180°	6662.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	918	918	918	918	918	
5°	919	916	909	917	916	87
15°	881	882	879	888	887	248
25°	806	812	815	827	828	371
35°	705	718	728	742	745	442
45°	588	608	627	645	650	454
55°	461	482	513	534	540	410
65°	319	352	386	412	420	316
75°	177	215	258	287	296	188
85°	54	98	144	175	185	57
90°	17	65	119	151	160	13
95°	45	146	864	501	358	45
105°	120	191	691	1436	1439	129
115°	202	261	604	1139	1362	201
125°	277	327	582	957	1079	247
135°	326	388	558	833	948	252
145°	374	428	546	687	758	235
155°	425	459	530	601	626	196
165°	463	477	508	538	546	131
175°	483	484	488	494	492	46
180°	484	484	484	484	484	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	918.0	918.0	918.0	918.0	918.0
2.5°	922.2	919.1	910.9	918.0	917.0
5°	919.1	916.0	908.8	917.0	916.0
7.5°	912.9	910.9	904.7	913.9	912.9
10°	904.7	903.7	898.5	907.8	906.7
12.5°	893.4	893.4	890.3	898.5	898.5
15°	881.0	882.1	879.0	888.2	887.2
17.5°	864.6	867.7	866.6	875.9	874.9
20°	847.1	850.2	851.2	861.5	861.5
22.5°	827.6	831.7	833.7	844.0	846.1
25°	806.0	812.2	815.2	826.6	827.6
27.5°	782.3	791.6	795.7	806.0	807.0
30°	758.7	766.9	774.1	785.4	787.5
32.5°	733.0	743.3	751.5	764.9	766.9
35°	705.2	717.6	727.9	742.3	745.3
37.5°	677.5	691.9	704.2	718.6	721.7
40°	650.8	664.1	678.5	693.9	698.0
42.5°	619.9	635.3	652.8	670.3	673.4
45°	588.0	607.6	627.1	644.6	649.7
47.5°	558.2	577.8	600.4	617.9	624.0
50°	525.3	547.9	570.6	591.1	597.3
52.5°	492.4	515.1	541.8	562.3	568.5
55°	460.6	482.2	513.0	533.6	539.7
57.5°	424.6	451.3	481.1	505.8	510.9
60°	389.6	416.4	450.3	473.9	482.2
62.5°	355.7	385.5	419.4	443.1	451.3
65°	318.7	351.6	386.5	412.2	420.5
67.5°	283.7	318.7	355.7	381.4	389.6
70°	247.8	282.7	321.8	349.5	356.7
72.5°	212.8	248.8	290.9	317.7	325.9
75°	176.8	214.9	258.0	286.8	296.1
77.5°	142.9	183.0	228.2	257.0	267.3
80°	112.1	153.2	198.4	229.3	237.5
82.5°	81.2	124.4	169.6	201.5	210.7
85°	54.5	97.7	143.9	174.8	185.0
87.5°	33.9	76.1	121.3	151.1	160.4
90°	17.4	65.2	118.9	150.6	159.8
92.5°	28.7	124.6	468.1	247.4	219.1
95°	44.8	146.1	863.9	500.7	358.3
97.5°	64.6	151.4	913.0	894.1	677.2
100°	83.5	161.6	842.2	1189.3	984.6
102.5°	102.5	174.6	756.3	1371.3	1253.1
105°	120.5	190.9	691.3	1435.9	1438.9
107.5°	142.3	208.7	647.2	1409.4	1524.0
110°	163.1	225.5	625.0	1327.2	1520.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	183.0	243.3	611.4	1227.9	1458.5
115°	202.0	261.0	604.3	1139.1	1362.0
117.5°	222.9	278.4	598.2	1067.4	1268.5
120°	242.7	294.2	593.0	1017.0	1190.1
122.5°	261.7	310.6	587.0	982.9	1127.0
125°	276.8	327.2	581.9	957.3	1079.0
127.5°	292.1	344.3	574.8	931.6	1047.2
130°	303.4	359.9	568.7	903.2	1018.3
132.5°	315.8	374.2	563.7	870.6	987.4
135°	326.2	388.0	557.6	832.6	948.0
137.5°	337.6	398.7	553.4	793.2	902.9
140°	349.9	409.6	549.5	754.7	855.0
142.5°	362.1	419.6	547.4	719.8	804.2
145°	374.5	427.6	545.5	686.7	758.2
147.5°	388.7	436.2	542.6	658.2	715.0
150°	402.0	444.3	539.8	635.8	678.5
152.5°	413.4	451.9	535.0	617.8	650.0
155°	424.8	458.6	530.3	600.6	626.3
157.5°	436.2	464.7	525.5	584.4	604.4
160°	446.7	470.0	519.8	568.3	584.5
162.5°	456.2	474.2	514.1	552.6	565.5
165°	462.8	477.0	508.4	538.4	546.4
167.5°	470.4	479.4	502.7	526.0	531.2
170°	475.2	481.4	497.0	513.7	517.0
172.5°	479.9	482.8	491.3	502.8	502.7
175°	482.8	483.7	487.5	494.2	492.3
177.5°	484.7	483.7	484.7	488.0	484.7
180°	483.7	483.7	483.7	483.7	483.7

(END OF REPORT)