

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: P1025492

Luminaire Tested: S124DIP-B575D1035UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025492
REPORT IS A COMBINATION OF REPORTS P996047 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B575D1035UB30-4F0-XX-W2A-D1
Description: Define 4 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

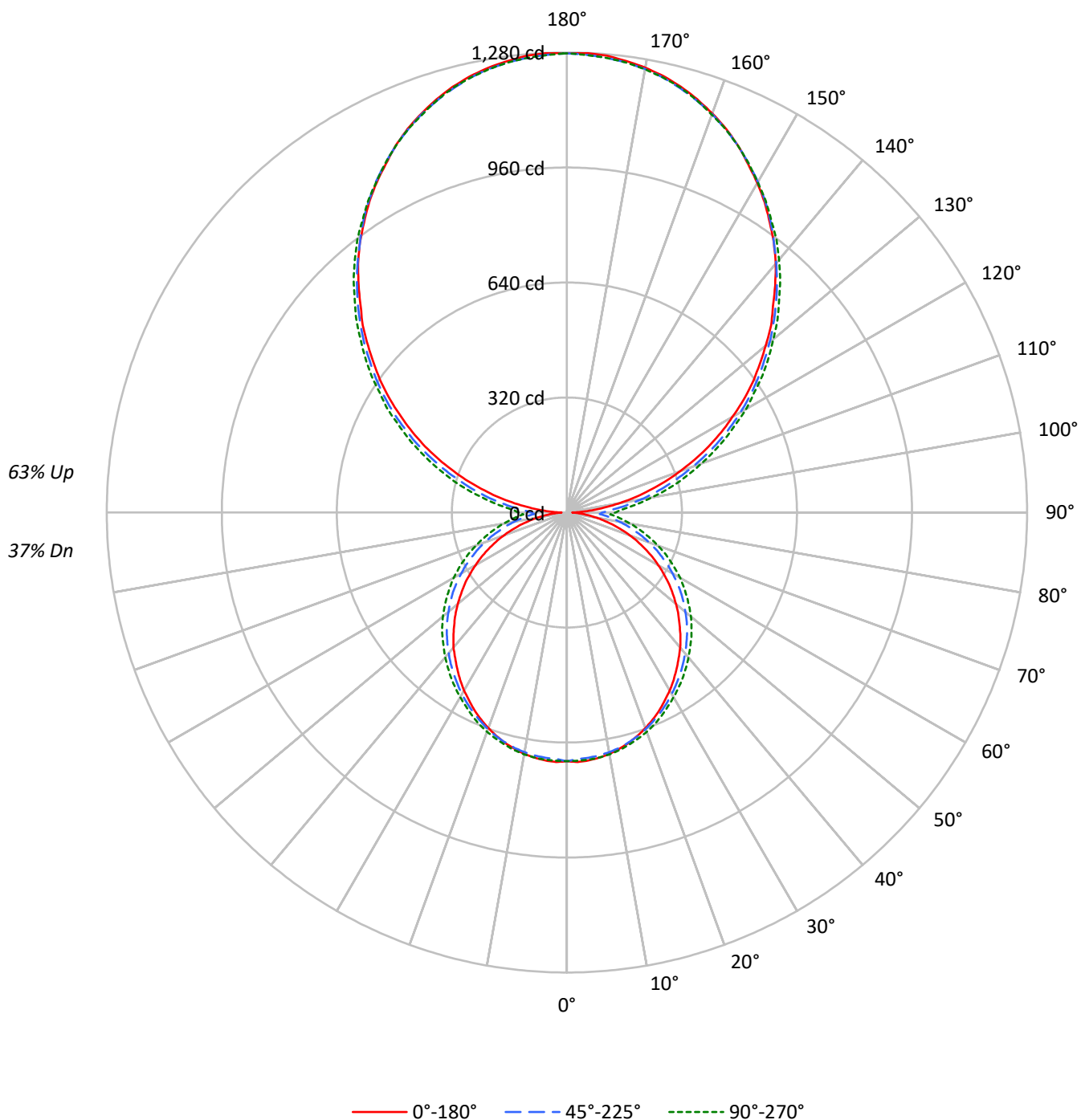
Lumens per Lamp: N/A
Luminaire Lumens: 5907.0 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	44	44	44
1	94	90	85	82	85	81	78	75	65	63	61	51	49	48	38	37	36
2	85	78	71	66	77	70	65	60	57	53	50	44	42	39	33	31	29
3	78	68	61	55	70	62	55	50	50	45	41	39	36	33	29	27	25
4	71	60	52	46	64	54	48	42	44	39	35	35	31	28	26	23	21
5	65	53	45	39	58	48	41	36	39	34	30	31	27	24	23	20	18
6	60	48	39	34	54	43	36	31	35	30	26	28	24	21	21	18	16
7	55	43	35	29	50	39	32	27	32	27	23	25	21	18	19	16	14
8	51	39	31	26	46	35	28	24	29	24	20	23	19	16	17	15	12
9	47	35	28	23	43	32	26	21	26	21	18	21	17	14	16	13	11
10	44	32	25	20	40	29	23	19	24	19	16	19	16	13	15	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5642	5642	5642
5°	5658	5495	5505
10°	5621	5387	5372
15°	5568	5266	5221
20°	5490	5133	5075
25°	5403	4988	4917
30°	5307	4845	4756
35°	5200	4698	4613
40°	5114	4557	4465
45°	4986	4424	4334
50°	4877	4274	4196
55°	4765	4129	4037
60°	4591	3949	3887
65°	4399	3754	3706
70°	4165	3531	3498
75°	3841	3285	3299
80°	3475	3032	3092
85°	2991	2780	2924

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 90°

Luminance: 5023 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.6	1.1
10°-20°	187.8	3.2
20°-30°	284.0	4.8
30°-40°	343.6	5.8
40°-50°	363.2	6.1
50°-60°	341.9	5.8
60°-70°	283.7	4.8
70°-80°	199.1	3.4
80°-90°	115.0	1.9
90°-100°	150.1	2.5
100°-110°	299.0	5.1
110°-120°	457.0	7.7
120°-130°	577.6	9.8
130°-140°	635.8	10.8
140°-150°	618.6	10.5
150°-160°	518.9	8.8
160°-170°	345.3	5.8
170°-180°	120.9	2.0
0°-30°	537.4	9.1
0°-40°	881.0	14.9
0°-60°	1586.1	26.9
0°-90°	2183.8	37.0
90°-120°	906.1	15.3
90°-150°	2738.1	46.4
90°-180°	3723.0	63.0
0°-180°	5907.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	692	692	692	692	692	
5°	693	690	685	691	690	66
15°	664	665	662	669	669	187
25°	608	612	614	623	624	280
35°	532	541	549	559	562	333
45°	443	458	473	486	490	343
55°	347	363	387	402	407	309
65°	240	265	291	311	317	238
75°	133	162	194	216	223	142
85°	41	74	108	132	140	43
90°	15	57	98	127	135	13
95°	69	104	142	166	173	72
105°	237	254	286	309	318	252
115°	436	442	465	481	486	430
125°	631	630	648	661	664	562
135°	811	817	822	833	834	628
145°	984	987	988	992	992	616
155°	1126	1126	1126	1130	1126	518
165°	1226	1223	1221	1227	1223	346
175°	1276	1271	1270	1277	1270	121
180°	1278	1278	1278	1278	1278	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	691.9	691.9	691.9	691.9	691.9
2.5°	695.0	692.7	686.5	691.9	691.1
5°	692.7	690.4	684.9	691.1	690.4
7.5°	688.0	686.5	681.8	688.8	688.0
10°	681.8	681.1	677.2	684.2	683.4
12.5°	673.3	673.3	671.0	677.2	677.2
15°	664.0	664.8	662.5	669.4	668.7
17.5°	651.6	653.9	653.2	660.1	659.4
20°	638.4	640.8	641.5	649.3	649.3
22.5°	623.7	626.8	628.4	636.1	637.7
25°	607.5	612.1	614.4	623.0	623.7
27.5°	589.6	596.6	599.7	607.5	608.2
30°	571.8	578.0	583.4	592.0	593.5
32.5°	552.4	560.2	566.4	576.5	578.0
35°	531.5	540.8	548.6	559.4	561.7
37.5°	510.6	521.4	530.7	541.6	543.9
40°	490.5	500.5	511.4	523.0	526.1
42.5°	467.2	478.8	492.0	505.2	507.5
45°	443.2	457.9	472.6	485.8	489.7
47.5°	420.7	435.4	452.5	465.7	470.3
50°	395.9	413.0	430.0	445.5	450.2
52.5°	371.1	388.2	408.3	423.8	428.5
55°	347.1	363.4	386.6	402.1	406.8
57.5°	320.0	340.1	362.6	381.2	385.1
60°	293.7	313.8	339.4	357.2	363.4
62.5°	268.1	290.6	316.1	333.9	340.1
65°	240.2	265.0	291.3	310.7	316.9
67.5°	213.8	240.2	268.1	287.5	293.7
70°	186.7	213.1	242.5	263.4	268.9
72.5°	160.4	187.5	219.3	239.4	245.6
75°	133.3	161.9	194.5	216.2	223.1
77.5°	107.7	137.9	172.0	193.7	201.5
80°	84.5	115.4	149.5	172.8	179.0
82.5°	61.2	93.8	127.8	151.9	158.8
85°	41.1	73.6	108.5	131.7	139.5
87.5°	25.6	57.3	91.4	113.9	120.9
90°	15.4	57.2	98.4	126.9	135.0
92.5°	37.3	77.2	115.6	140.2	147.4
95°	69.4	103.8	142.5	166.4	173.4
97.5°	104.2	134.6	174.2	198.3	205.3
100°	146.8	171.0	210.1	233.0	238.4
102.5°	192.3	210.4	247.7	270.9	278.1
105°	237.3	253.7	286.3	308.7	317.8
107.5°	285.7	299.8	327.9	351.2	355.7
110°	334.3	347.1	373.3	389.1	398.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	384.9	394.2	417.8	434.8	441.0
115°	435.5	442.5	465.3	481.4	485.8
117.5°	483.9	488.6	510.8	524.1	527.4
120°	531.6	537.9	557.4	567.9	576.1
122.5°	582.0	583.0	602.9	615.4	615.9
125°	630.6	629.8	648.2	660.9	663.7
127.5°	675.1	677.2	690.8	702.8	707.2
130°	721.7	723.9	736.3	748.3	748.9
132.5°	770.1	771.3	779.6	790.8	794.6
135°	810.8	816.8	822.3	832.7	834.3
137.5°	857.3	859.5	864.6	873.3	878.1
140°	903.7	905.0	905.7	914.8	917.7
142.5°	945.5	947.5	945.7	954.2	957.3
145°	984.1	987.2	988.2	991.8	991.9
147.5°	1023.6	1027.7	1026.7	1026.6	1028.7
150°	1059.2	1062.3	1062.3	1062.3	1061.3
152.5°	1092.0	1093.9	1094.9	1097.9	1094.9
155°	1126.5	1126.5	1125.6	1129.5	1125.6
157.5°	1156.2	1154.2	1154.2	1157.2	1154.2
160°	1181.9	1180.9	1179.9	1182.9	1177.9
162.5°	1205.6	1202.6	1201.7	1207.6	1202.6
165°	1226.4	1223.4	1221.4	1227.3	1223.4
167.5°	1243.2	1239.2	1239.2	1245.1	1239.2
170°	1257.0	1252.1	1253.0	1259.0	1252.1
172.5°	1266.9	1262.9	1262.9	1269.8	1262.9
175°	1275.8	1270.8	1269.8	1276.8	1269.8
177.5°	1279.7	1274.8	1274.8	1281.7	1273.8
180°	1277.7	1277.7	1277.7	1277.7	1277.7

(END OF REPORT)