

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: P1025601

Luminaire Tested: S124DIP-B575D365UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025601
REPORT IS A COMBINATION OF REPORTS P996186 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B575D365UB40-4F0-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

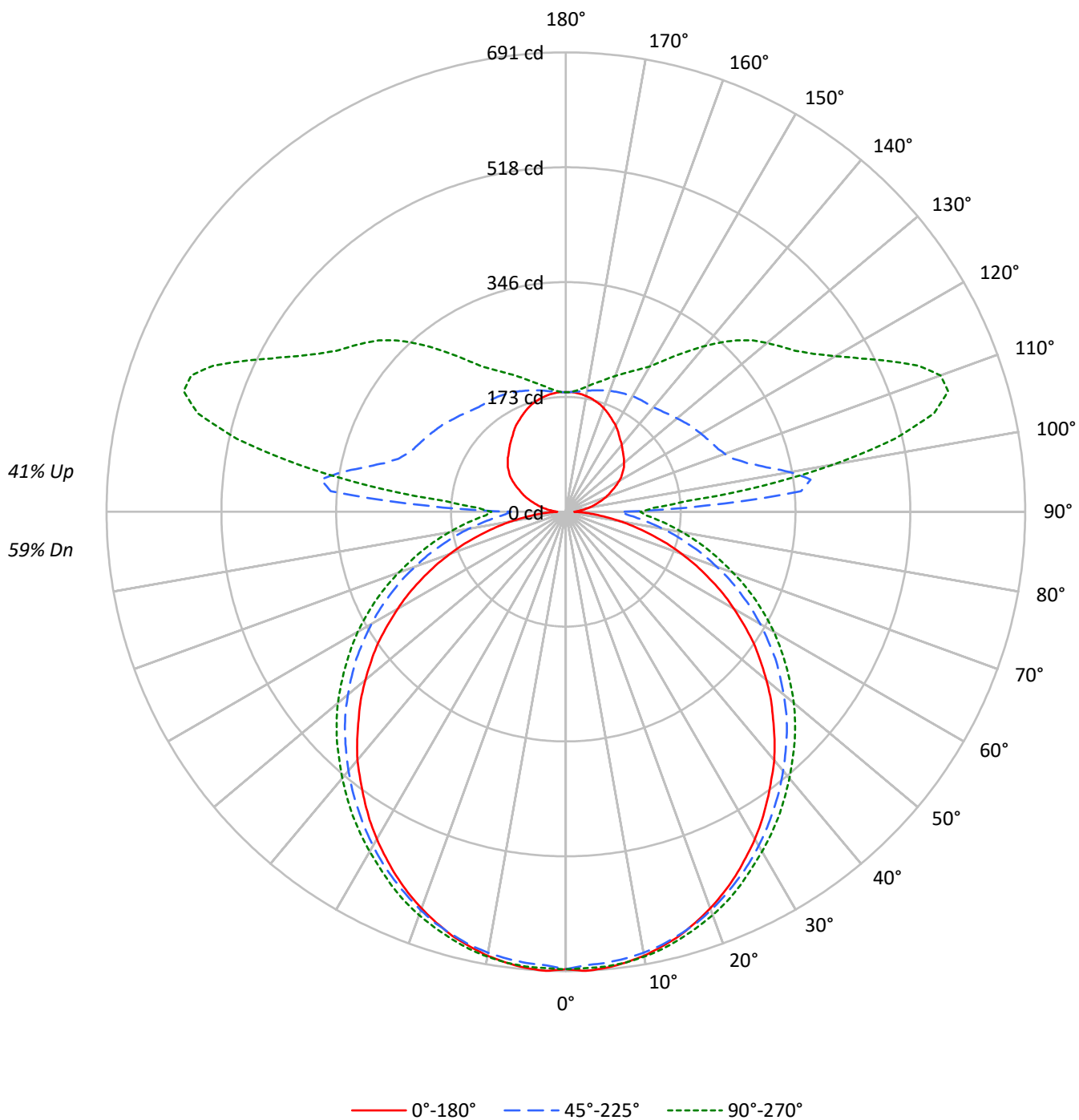
Lumens per Lamp: N/A
Luminaire Lumens: 3659.6 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 33.3
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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	65	65	65
1	99	94	89	85	92	88	84	80	76	73	70	65	63	61	55	54	52
2	89	81	74	69	83	76	70	65	66	61	57	56	53	50	48	45	43
3	81	71	63	57	75	66	59	54	58	52	48	50	45	42	42	39	36
4	74	63	54	48	69	59	51	45	51	45	40	44	39	35	37	34	31
5	68	56	47	41	63	52	44	39	45	39	34	39	34	30	33	30	27
6	63	50	41	35	58	47	39	33	41	35	30	35	30	27	30	26	23
7	58	45	37	31	54	42	35	29	37	31	26	32	27	23	28	24	21
8	54	41	33	27	50	38	31	26	34	28	23	29	24	21	25	21	18
9	50	37	29	24	46	35	28	23	31	25	21	27	22	19	23	19	16
10	47	34	27	22	43	32	25	21	28	23	19	25	20	17	22	18	15

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	1.8
10°-20°	186.8	5.1
20°-30°	282.4	7.7
30°-40°	341.7	9.3
40°-50°	361.2	9.9
50°-60°	340.0	9.3
60°-70°	282.1	7.7
70°-80°	198.0	5.4
80°-90°	112.3	3.1
90°-100°	200.1	5.5
100°-110°	321.0	8.8
110°-120°	275.3	7.5
120°-130°	222.1	6.1
130°-140°	177.8	4.9
140°-150°	131.3	3.6
150°-160°	91.2	2.5
160°-170°	53.6	1.5
170°-180°	17.4	0.5
0°-30°	534.4	14.6
0°-40°	876.2	23.9
0°-60°	1577.4	43.1
0°-90°	2169.8	59.3
90°-120°	796.4	21.8
90°-150°	1327.6	36.3
90°-180°	1490.0	40.7
0°-180°	3659.6	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	46	83	106	112	9
95°	22	72	355	230	181	21
105°	48	82	283	569	574	52
115°	77	103	243	450	536	77
125°	104	123	227	374	422	93
135°	122	145	211	319	365	95
145°	140	159	203	258	286	88
155°	158	171	197	223	233	73
165°	172	177	189	200	203	49
175°	180	180	181	184	183	17
180°	180	180	180	180	180	

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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°	12.7	46.0	82.7	105.7	112.2
92.5°	16.5	65.7	210.3	139.0	131.6
95°	21.7	72.2	355.1	230.4	181.0
97.5°	28.6	72.2	371.4	374.4	297.3
100°	35.4	74.4	342.8	482.4	408.9
102.5°	42.4	77.7	308.8	547.6	506.8
105°	48.3	82.2	282.8	569.4	573.6
107.5°	56.4	87.7	264.4	557.6	602.9
110°	63.8	92.4	254.6	524.6	599.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	70.8	97.8	247.6	485.4	574.3
115°	77.4	103.0	243.0	450.4	536.1
117.5°	85.2	108.2	238.8	421.4	499.3
120°	92.3	112.6	234.9	400.3	467.9
122.5°	99.3	117.6	230.8	385.8	442.1
125°	104.5	122.8	227.3	374.3	421.8
127.5°	110.2	129.2	222.7	362.4	408.1
130°	114.0	134.6	218.5	349.8	395.0
132.5°	118.6	139.8	215.1	335.8	381.6
135°	122.0	145.0	210.8	319.3	364.6
137.5°	126.3	148.7	207.8	302.8	345.5
140°	130.9	152.8	205.1	286.6	325.7
142.5°	135.1	156.5	203.6	272.0	305.0
145°	139.7	159.0	202.9	257.7	285.9
147.5°	145.0	162.2	201.8	245.2	267.9
150°	150.0	165.2	200.8	236.4	252.4
152.5°	153.7	168.1	199.0	229.8	241.8
155°	158.0	170.6	197.2	223.4	232.9
157.5°	162.2	172.8	195.5	217.4	224.8
160°	166.1	174.8	193.3	211.4	217.4
162.5°	169.7	176.4	191.2	205.6	210.3
165°	172.1	177.4	189.1	200.2	203.2
167.5°	175.0	178.3	187.0	195.6	197.6
170°	176.7	179.0	184.9	191.0	192.3
172.5°	178.5	179.6	182.7	187.0	187.0
175°	179.6	179.9	181.3	183.8	183.1
177.5°	180.3	179.9	180.3	181.5	180.3
180°	179.9	179.9	179.9	179.9	179.9

(END OF REPORT)