

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: P1025797

Luminaire Tested: S124DIP-B795D365UB27-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025797
REPORT IS A COMBINATION OF REPORTS P996442 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B795D365UB27-4F0-XX-W2A-D
Description: Define 4 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

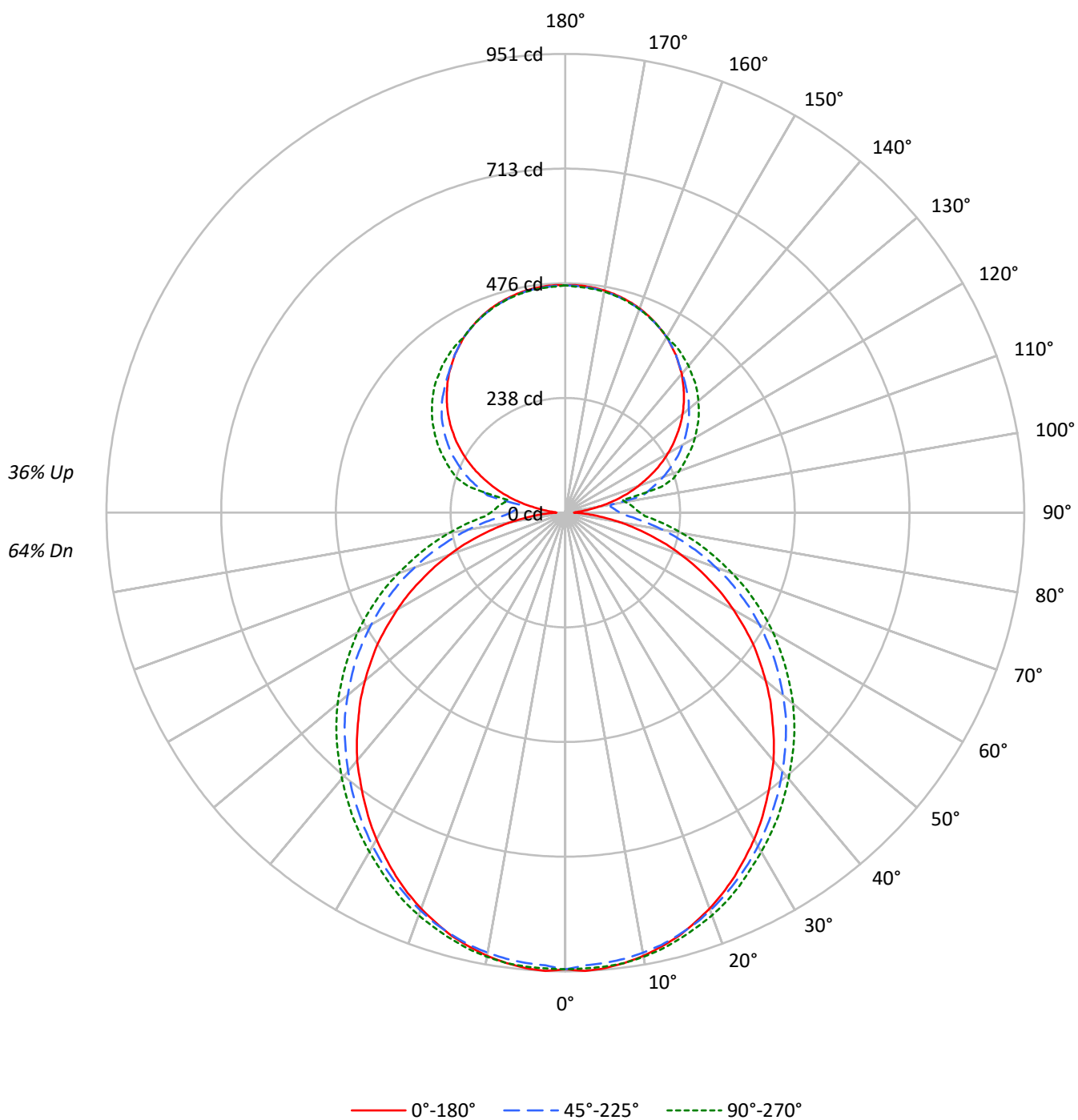
Lumens per Lamp: N/A
Luminaire Lumens: 4687.0 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 45.2
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	110	110	110	110	104	104	104	104	91	91	91	79	79	79	69	69	69
1	100	95	90	86	93	89	85	81	78	75	72	68	66	64	59	57	56
2	90	82	75	69	84	77	71	66	68	63	59	59	55	52	51	48	46
3	82	72	64	57	76	67	60	54	59	53	49	52	47	43	45	41	38
4	75	63	55	48	70	59	52	46	52	46	41	46	41	37	40	36	33
5	69	56	47	41	64	53	45	39	47	40	35	41	36	32	36	31	28
6	63	50	42	35	59	47	40	34	42	36	31	37	32	28	32	28	25
7	58	45	37	31	54	43	35	30	38	32	27	34	28	24	29	25	22
8	54	41	33	27	51	39	31	26	35	28	24	31	25	22	27	23	19
9	50	38	30	24	47	36	28	23	32	26	21	28	23	19	25	21	18
10	47	34	27	22	44	33	26	21	29	23	19	26	21	18	23	19	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7721	7721	7721
5°	7742	7519	7533
10°	7692	7371	7350
15°	7619	7205	7144
20°	7513	7025	6944
25°	7393	6827	6729
30°	7263	6630	6508
35°	7116	6428	6313
40°	6997	6236	6110
45°	6824	6054	5931
50°	6674	5848	5741
55°	6520	5650	5523
60°	6281	5403	5319
65°	6020	5136	5071
70°	5700	4833	4786
75°	5256	4494	4514
80°	4754	4149	4230
85°	4090	3803	3999

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6824 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.7	1.9
10°-20°	257.0	5.5
20°-30°	388.6	8.3
30°-40°	470.2	10.0
40°-50°	497.1	10.6
50°-60°	467.8	10.0
60°-70°	388.2	8.3
70°-80°	272.4	5.8
80°-90°	154.5	3.3
90°-100°	107.1	2.3
100°-110°	170.7	3.6
110°-120°	242.1	5.2
120°-130°	275.3	5.9
130°-140°	278.2	5.9
140°-150°	252.0	5.4
150°-160°	201.4	4.3
160°-170°	129.9	2.8
170°-180°	44.8	1.0
0°-30°	735.4	15.7
0°-40°	1205.6	25.7
0°-60°	2170.4	46.3
0°-90°	2985.6	63.7
90°-120°	519.9	11.1
90°-150°	1325.3	28.3
90°-180°	1701.0	36.3
0°-180°	4687.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	947	947	947	947	947	
5°	948	945	937	946	945	90
15°	909	910	906	916	915	256
25°	831	838	841	852	854	383
35°	727	740	751	766	769	455
45°	606	627	647	665	670	469
55°	475	497	529	550	557	423
65°	329	363	399	425	434	326
75°	182	222	266	296	305	194
85°	56	101	148	180	191	59
90°	18	64	113	146	155	13
95°	33	56	100	131	141	35
105°	116	139	180	210	205	122
115°	204	215	249	273	280	202
125°	283	283	309	330	337	253
135°	348	347	356	374	381	268
145°	399	399	399	406	411	250
155°	437	437	436	437	436	201
165°	461	459	459	462	458	130
175°	471	469	469	473	468	45
180°	471	471	471	471	471	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	946.8	946.8	946.8	946.8	946.8
2.5°	951.0	947.9	939.4	946.8	945.7
5°	947.9	944.7	937.2	945.7	944.7
7.5°	941.5	939.4	933.0	942.6	941.5
10°	933.0	931.9	926.6	936.2	935.1
12.5°	921.3	921.3	918.2	926.6	926.6
15°	908.6	909.7	906.5	916.0	915.0
17.5°	891.7	894.8	893.8	903.3	902.3
20°	873.6	876.8	877.9	888.5	888.5
22.5°	853.5	857.7	859.9	870.5	872.6
25°	831.2	837.6	840.8	852.4	853.5
27.5°	806.8	816.4	820.6	831.2	832.3
30°	782.5	790.9	798.4	810.0	812.1
32.5°	755.9	766.6	775.0	788.8	790.9
35°	727.3	740.0	750.6	765.5	768.7
37.5°	698.7	713.5	726.3	741.1	744.3
40°	671.1	684.9	699.8	715.7	719.9
42.5°	639.3	655.2	673.3	691.3	694.5
45°	606.5	626.6	646.7	664.8	670.1
47.5°	575.7	595.9	619.2	637.2	643.6
50°	541.8	565.1	588.4	609.6	616.0
52.5°	507.9	531.2	558.7	579.9	586.3
55°	475.0	497.3	529.1	550.3	556.6
57.5°	437.9	465.4	496.2	521.6	526.9
60°	401.8	429.4	464.4	488.8	497.3
62.5°	366.8	397.6	432.6	457.0	465.4
65°	328.7	362.6	398.6	425.2	433.6
67.5°	292.6	328.7	366.8	393.3	401.8
70°	255.5	291.6	331.9	360.5	367.9
72.5°	219.5	256.6	300.0	327.6	336.1
75°	182.4	221.6	266.1	295.8	305.3
77.5°	147.4	188.7	235.4	265.1	275.7
80°	115.6	158.0	204.6	236.4	244.9
82.5°	83.8	128.3	174.9	207.8	217.3
85°	56.2	100.7	148.4	180.2	190.8
87.5°	35.0	78.5	125.1	155.9	165.4
90°	18.1	64.3	112.8	145.6	154.8
92.5°	21.2	57.6	106.0	137.8	146.3
95°	33.2	56.2	100.0	130.8	140.6
97.5°	49.7	88.3	94.7	124.0	133.9
100°	69.5	103.3	96.1	118.7	126.5
102.5°	92.8	120.3	164.8	113.0	121.5
105°	115.6	138.9	180.0	209.6	205.4
107.5°	138.5	157.6	197.2	225.5	234.3
110°	160.7	176.6	215.8	240.9	250.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	182.2	197.0	232.7	255.8	265.6
115°	204.5	215.0	248.6	272.7	280.1
117.5°	225.3	233.0	265.8	287.8	296.3
120°	245.3	249.9	280.3	302.2	310.0
122.5°	265.0	265.7	295.0	316.6	323.4
125°	282.6	283.0	308.8	330.0	336.7
127.5°	300.6	299.9	322.9	341.6	348.7
130°	316.9	316.1	334.2	353.6	359.9
132.5°	332.7	332.3	346.4	364.9	370.8
135°	347.5	347.1	355.9	373.6	380.7
137.5°	361.6	360.6	366.5	383.1	388.1
140°	375.3	375.0	376.7	391.6	397.2
142.5°	386.7	388.1	387.3	399.7	403.9
145°	399.3	399.3	399.3	406.0	411.0
147.5°	409.2	410.2	409.9	411.3	415.9
150°	420.1	420.4	420.1	420.1	420.4
152.5°	428.2	429.3	428.5	429.3	428.9
155°	436.7	437.0	435.9	437.4	436.3
157.5°	444.1	444.1	442.6	444.4	442.6
160°	450.4	449.3	449.0	451.1	449.0
162.5°	456.0	454.6	454.3	456.4	453.9
165°	460.6	458.9	458.9	461.7	458.5
167.5°	464.5	462.7	462.4	465.6	462.0
170°	467.7	465.6	465.9	468.7	465.2
172.5°	469.8	467.7	468.0	470.8	467.0
175°	471.2	469.1	469.4	472.6	468.4
177.5°	472.2	469.8	470.5	473.3	469.1
180°	471.2	471.2	471.2	471.2	471.2

(END OF REPORT)